

## APPENDIX A

### RAW ANALYTICAL DATA AND CALCULATION OF TEQ VALUES FOR SOIL SAMPLES

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- A1 Off-Post Field Samples (Study 1)**
  - A2 On-Post Random Sampling Field Samples (Study 2)**
  - A3 On-Post WTP Field Samples (Study 3)**
  - A4 On-Post Historic Use Area Samples (Study 4)**
  - A5 Quality Control Samples (all studies)**
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## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 227       | Fine              | Field  | NE A-1  | NE   | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0889            | 0.3556 |         | E    | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 0.0%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.024             | 0.096  | 0.0485  | --   |                 | 0.0                      | 0.0   | 1              | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0735            | 0.294  |         | E    |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0809            | 0.3236 | 0.096   | --   |                 | 0.1                      | 0.0   | 0.5            | 0.1                   | 0.0   | 0.0                  | 8.9%  | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0324            | 0.1296 | 0.203   | --   |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 0.2                  | 35.5% | 46.8% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0724            | 0.2896 | 0.0873  | --   |                 | 0.1                      | 0.0   | 0.1            | 0.0                   | 0.0   | 0.0                  | 1.8%  | 0.0%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0641            | 0.2564 | 0.166   | BD   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 0.0                  | 1.8%  |       |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0858            | 0.3432 | 0.152   | B    | <5x*B           | 0.2                      | 0.0   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.6%  | 0.0%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.107             | 0.428  | 0.29    | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 5.3%  | 2.3%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0644            | 0.2576 | 0.221   | --   |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.6%  | 2.3%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0538            | 0.2152 | 0.358   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 0.0                  | 7.1%  | 9.4%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0518            | 0.2072 | 0.193   | --   |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.6%  | 2.3%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.871             | 3.484  |         | D    | <5x*B           | 0.2                      |       | 0.01           | 0.0                   |       |                      | 0.4%  |       |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0721            | 0.2884 |         | E    |                 | 0.0                      |       | 0.01           | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0494            | 0.1976 | 8.56    | --   |                 | 8.6                      | 8.6   | 0.01           | 0.1                   | 0.1   | 0.1                  | 15.3% | 20.1% |       |      |       |      |
| OCDF                | 0.0582            | 0.2328 | 2.05    | --   |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| OCDD                | 0.0423            | 0.1692 | 57.3    | --   |                 | 57.3                     | 57.3  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 1.0%  | 1.3%  |       |      |       |      |
| PCB-77              | 0.0534            | 0.2136 | 2.64    | B    | <5x*B           | 2.6                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-81              | 0.0646            | 0.2584 | 0.421   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.169             | 0.676  | 14      | B    | <5x*B           | 14.0                     | 7.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.2%  |       |      |       |      |
| PCB-114             | 0.168             | 0.672  | 1.41    | --   |                 | 1.4                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.2%  |       |      |       |      |
| PCB-118             | 0.141             | 0.564  | 29.1    | B    | <5x*B           | 29.1                     | 14.6  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.5%  | 0.3%  |       |      |       |      |
| PCB-123             | 0.158             | 0.632  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-126             | 0.0611            | 0.2444 | 0.565   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.1                  | 10.7% | 14.0% |       |      |       |      |
| PCB-156             | 0.195             | 0.78   | 5.32    | B    | <5x*B           | 5.3                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.5%  | 0.3%  |       |      |       |      |
| PCB-157             | 1.38              | 5.52   |         | E    |                 | 0.7                      |       | 0.0005         | 0.0                   |       |                      | 0.1%  |       |       |      |       |      |
| PCB-167             | 0.189             | 0.756  | 2.77    | B    | <5x*B           | 2.8                      | 1.4   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.0572            | 0.2288 | 0.131   | --   |                 | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.2%  |       |      |       |      |
| PCB-189             | 0.741             | 2.964  |         | E    |                 | 0.4                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.1       | 0.1   | 0.5          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 378       | Fine              | Field  | NE A-10 | NE   | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.114             | 0.456  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 2.2%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0081            | 0.0324 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0136            | 0.0544 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.00989           | 0.0396 | 0.185   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 0.1                  | 0.1   | 21.8% | 33.8% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.195             | 0.78   |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 21.8% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0201            | 0.0804 | 0.133   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.2%  | 3.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.163             | 0.652  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   | 0.0   |                      |       | 2.2%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0183            | 0.0732 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0249            | 0.0996 | 0.329   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 6.5%  | 10.1% |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.192             | 0.768  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   | 0.0   |                      |       | 2.2%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0322            | 0.1288 | 0.342   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 6.5%  | 10.1% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.154             | 0.616  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 2.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.162             | 0.648  | 1.11    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.4%  | 3.7%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.244             | 0.976  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0147            | 0.0588 | 3.15    | B    | <5x*B           | 3.2                      | 1.6   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 7.0%  | 5.4%  |      |       |      |
| OCDF                | 0.0384            | 0.1536 | 2.12    | J    |                 | 2.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| OCDD                | 0.0284            | 0.1136 | 20.7    | --   |                 | 20.7                     | 20.7  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.5%  | 0.7%  |      |       |      |
| PCB-77              | 0.0236            | 0.0944 | 3.61    | B    | <5x*B           | 3.6                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.1%  |      |       |      |
| PCB-81              | 0.0242            | 0.0968 | 0.414   | --   |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-105             | 0.183             | 0.732  | 18.7    | B    | <5x*B           | 18.7                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.3%  |      |       |      |
| PCB-114             | 0.192             | 0.768  | 1.08    | B    | <5x*B           | 1.1                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.1%  |      |       |      |
| PCB-118             | 0.201             | 0.804  | 42.8    | B    | <5x*B           | 42.8                     | 21.4  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.9%  | 0.7%  |      |       |      |
| PCB-123             | 1.3               | 5.2    |         | E    |                 | 0.7                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.0678            | 0.2712 | 0.863   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 19.6% | 30.4% |      |       |      |
| PCB-156             | 0.221             | 0.884  | 6.34    | B    | <5x*B           | 6.3                      | 3.2   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.7%  | 0.5%  |      |       |      |
| PCB-157             | 0.228             | 0.912  | 1.75    | B    | <5x*B           | 1.8                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.2%  | 0.2%  |      |       |      |
| PCB-167             | 0.225             | 0.9    | 3.33    | B    | <5x*B           | 3.3                      | 1.7   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.0485            | 0.194  | 0.213   | B    | <5x*B           | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.3%  |      |       |      |
| PCB-189             | 0.159             | 0.636  | 0.963   | B    | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.1       | 0.1   | 0.3          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 482               | Fine   | Field  | NE A-2  | NE    | Agricultural    |                          |         |          |       |                       |       |                      |       |      |  |  |  |
|---------------------|-------------------|--------|--------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|------|--|--|--|
| Analyte             | Analytical Limits |        |        | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |  |  |  |
|                     | EDL               | QL     | Conc   | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |      |  |  |  |
| 2,3,7,8-TCDF        | 0.0301            | 0.1204 | 0.0811 | BNJ     | <5x*B | 0.0             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 0.0% |  |  |  |
| 2,3,7,8-TCDD        | 0.0485            | 0.194  |        | E       |       | 0.0             |                          | 1       | 0.0      |       |                       |       |                      |       | 0.0% |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0947            | 0.3788 | 0.0872 | --      |       | 0.0             |                          | 0.05    | 0.0      |       |                       |       |                      |       | 0.0% |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0769            | 0.3076 | 0.0839 | --      |       | 0.1             | 0.0                      | 0.5     | 0.1      | 0.1   | 0.0                   | 0.0   | 9.2%                 | 0.0%  |      |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0462            | 0.1848 | 0.19   | --      |       | 0.2             | 0.2                      | 1       | 0.2      | 0.2   | 0.2                   | 0.2   | 37.0%                | 45.8% |      |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0446            | 0.1784 | 0.116  | --      |       | 0.1             | 0.1                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 1.8%                 | 2.3%  |      |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.0393            | 0.1572 | 0.183  | B       | <5x*B | 0.2             | 0.1                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 3.7%                 | 2.3%  |      |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0472            | 0.1888 | 0.151  | B       | <5x*B | 0.2             | 0.0                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 3.7%                 | 0.0%  |      |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0524            | 0.2096 | 0.284  | B       | <5x*B | 0.3             | 0.1                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 5.5%                 | 2.3%  |      |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0391            | 0.1564 | 0.178  | --      |       | 0.2             | 0.2                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 3.7%                 | 4.6%  |      |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0324            | 0.1296 | 0.208  | --      |       | 0.2             | 0.2                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 3.7%                 | 4.6%  |      |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0314            | 0.1256 | 0.183  | --      |       | 0.2             | 0.2                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 3.7%                 | 4.6%  |      |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0642            | 0.2568 | 1.32   | --      |       | 1.3             | 1.3                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.0   | 2.4%                 | 3.0%  |      |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0997            | 0.3988 | 0.125  | --      |       | 0.1             | 0.1                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0287            | 0.1148 | 5.27   | --      |       | 5.3             | 5.3                      | 0.01    | 0.1      | 0.1   | 0.1                   | 0.1   | 9.8%                 | 12.1% |      |  |  |  |
| OCDF                | 0.0229            | 0.0916 | 4.58   | --      |       | 4.6             | 4.6                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |  |  |  |
| OCDD                | 0.0338            | 0.1352 | 46.1   | --      |       | 46.1            | 46.1                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.9%                 | 1.1%  |      |  |  |  |
| PCB-77              | 0.0383            | 0.1532 | 3.04   | B       | <5x*B | 3.0             | 1.5                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |  |  |  |
| PCB-81              | 0.0429            | 0.1716 | 0.341  | B       | <5x*B | 0.3             | 0.2                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |  |  |  |
| PCB-105             | 0.353             | 1.412  | 14.3   | B       | <5x*B | 14.3            | 7.2                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |  |  |  |
| PCB-114             | 0.351             | 1.404  | 0.892  | --      |       | 0.9             | 0.4                      | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |  |  |  |
| PCB-118             | 0.281             | 1.124  | 30.8   | B       | <5x*B | 30.8            | 15.4                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.6%                 | 0.4%  |      |  |  |  |
| PCB-123             | 0.316             | 1.264  |        | --      |       | 0.2             |                          | 0.0001  | 0.0      |       |                       |       | 0.0%                 |       |      |  |  |  |
| PCB-126             | 0.0513            | 0.2052 | 0.663  | --      |       | 0.7             | 0.7                      | 0.1     | 0.1      | 0.1   | 0.1                   | 0.1   | 12.9%                | 16.0% |      |  |  |  |
| PCB-156             | 0.273             | 1.092  | 4.55   | B       | <5x*B | 4.6             | 2.3                      | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |  |  |  |
| PCB-157             | 1.41              | 5.64   |        | E       |       | 0.7             |                          | 0.0005  | 0.0      |       |                       |       | 0.1%                 |       |      |  |  |  |
| PCB-167             | 0.265             | 1.06   | 2.88   | B       | <5x*B | 2.9             | 1.4                      | 0.00001 | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |  |  |  |
| PCB-169             | 0.0421            | 0.1684 | 0.128  | --      |       | 0.1             | 0.1                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |  |  |  |
| PCB-189             | 0.911             | 3.644  |        | E       |       | 0.5             |                          | 0.0001  | 0.0      |       |                       |       | 0.0%                 |       |      |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.1       | 0.1   | 0.5          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 724               | Fine   | Field | NE A-3  | NE    | Agricultural    |                          |         |          |       |                       |       |                      |       |  |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0555            | 0.222  | 0.257 | NJ      |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.9%  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.00926           | 0.0370 |       | --      |       | 0.0             |                          | 1       |          | 0.0   |                       |       |                      | 0.0%  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.362             | 1.448  |       | E       |       | 0.2             |                          | 0.05    |          | 0.0   |                       |       |                      | 0.9%  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0216            | 0.0864 | 0.696 | I       |       | 0.7             | 0.7                      | 0.5     |          | 0.4   | 0.4                   | 30.7% |                      | 47.3% |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.358             | 1.432  |       | E       |       | 0.2             |                          | 1       |          | 0.2   |                       |       |                      | 17.5% |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0376            | 0.1504 | 0.364 | --      |       | 0.4             | 0.4                      | 0.1     |          | 0.0   | 0.0                   | 3.5%  |                      | 5.4%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.305             | 1.22   |       | E       |       | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      | 1.8%  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0357            | 0.1428 | 0.587 | B       | <5x*B | 0.6             | 0.3                      | 0.1     |          | 0.1   | 0.0                   | 5.3%  |                      | 4.1%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.515             | 2.06   |       | E       | <5x*B | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      | 2.6%  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0101            | 0.0404 | 0.306 | --      |       | 0.3             | 0.3                      | 0.1     |          | 0.0   | 0.0                   | 2.6%  |                      | 4.1%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.00899           | 0.036  | 0.589 | --      |       | 0.6             | 0.6                      | 0.1     |          | 0.1   | 0.1                   | 5.3%  |                      | 8.1%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.00984           | 0.0394 | 0.547 | J       |       | 0.5             | 0.3                      | 0.1     |          | 0.1   | 0.0                   | 4.4%  |                      | 4.1%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0289            | 0.1156 | 2.39  | --      |       | 2.4             | 2.4                      | 0.01    |          | 0.0   | 0.0                   | 2.1%  |                      | 3.2%  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0323            | 0.1292 | 0.183 | --      |       | 0.2             | 0.2                      | 0.01    |          | 0.0   | 0.0                   | 0.2%  |                      | 0.3%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0183            | 0.0732 | 8.13  | --      |       | 8.1             | 8.1                      | 0.01    |          | 0.1   | 0.1                   | 7.1%  |                      | 11.0% |  |  |  |  |
| OCDF                | 0.0194            | 0.0776 | 5.06  | --      |       | 5.1             | 5.1                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.1%  |  |  |  |  |
| OCDD                | 0.00885           | 0.0354 | 60.3  | --      |       | 60.3            | 60.3                     | 0.0001  |          | 0.0   | 0.0                   | 0.5%  |                      | 0.8%  |  |  |  |  |
| PCB-77              | 0.0871            | 0.3484 | 8.72  | B       | <5x*B | 8.7             | 4.4                      | 0.0001  |          | 0.0   | 0.0                   | 0.1%  |                      | 0.1%  |  |  |  |  |
| PCB-81              | 0.0694            | 0.2776 | 0.741 | BJ      | <5x*B | 0.7             | 0.4                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |  |  |  |  |
| PCB-105             | 0.599             | 2.396  | 44.3  | B       | <5x*B | 44.3            | 22.2                     | 0.0001  |          | 0.0   | 0.0                   | 0.4%  |                      | 0.3%  |  |  |  |  |
| PCB-114             | 0.627             | 2.508  | 2.55  | --      |       | 2.6             | 2.6                      | 0.0005  |          | 0.0   | 0.0                   | 0.1%  |                      | 0.2%  |  |  |  |  |
| PCB-118             | 0.657             | 2.628  | 91.6  | B       | <5x*B | 91.6            | 45.8                     | 0.0001  |          | 0.0   | 0.0                   | 0.8%  |                      | 0.6%  |  |  |  |  |
| PCB-123             | 2.24              | 8.96   |       | E       |       | 1.1             |                          | 0.0001  |          | 0.0   |                       |       |                      | 0.0%  |  |  |  |  |
| PCB-126             | 0.0991            | 0.3964 | 1.36  | BJ      | <5x*B | 1.4             | 0.7                      | 0.1     |          | 0.1   | 0.1                   | 12.3% |                      | 9.5%  |  |  |  |  |
| PCB-156             | 0.265             | 1.06   | 13.8  | B       | <5x*B | 13.8            | 6.9                      | 0.0005  |          | 0.0   | 0.0                   | 0.6%  |                      | 0.5%  |  |  |  |  |
| PCB-157             | 0.274             | 1.096  | 3.09  | --      |       | 3.1             | 3.1                      | 0.0005  |          | 0.0   | 0.0                   | 0.1%  |                      | 0.2%  |  |  |  |  |
| PCB-167             | 0.269             | 1.076  | 7.37  | --      |       | 7.4             | 7.4                      | 0.00001 |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |  |  |  |  |
| PCB-169             | 0.0383            | 0.1532 | 0.305 | J       |       | 0.3             | 0.2                      | 0.01    |          | 0.0   | 0.0                   | 0.3%  |                      | 0.3%  |  |  |  |  |
| PCB-189             | 0.159             | 0.636  | 2.17  | --      |       | 2.2             | 2.2                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.6   | 0.1       | 0.1   | 1.1          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 622               | Fine   | Field | NE A-4  | NE    | Agricultural    |                          |         |          |       |                       |       |                      |       |       |       |      |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.192             | 0.768  |       | E       |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.6%  |       |      |       |
| 2,3,7,8-TCDD        | 0.0275            | 0.11   |       | --      |       | 0.0             |                          | 1       |          | 0.0   |                       |       |                      |       | 0.0%  |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.404             | 1.616  |       | E       |       | 0.2             |                          | 0.05    |          | 0.0   |                       |       |                      |       | 0.6%  |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.058             | 0.232  | 1.72  | --      |       | 1.7             | 1.7                      | 0.5     |          | 0.9   | 0.9                   | 55.1% |                      | 83.0% |       |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.482             | 1.928  |       | E       |       | 0.2             |                          | 1       |          | 0.2   |                       |       |                      |       | 13.0% |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.427             | 1.708  |       | E       | <5x*B | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 1.3%  |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.59              | 2.36   |       | E       |       | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 1.9%  |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 1.21              | 4.84   |       | E       | <5x*B | 0.6             |                          | 0.1     |          | 0.1   |                       |       |                      |       | 3.9%  |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0988            | 0.3952 | 0.506 | B       | <5x*B | 0.5             | 0.3                      | 0.1     |          | 0.1   | 0.0                   | 3.2%  |                      | 2.9%  |       |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0565            | 0.226  | 0.38  | --      |       | 0.4             | 0.4                      | 0.1     |          | 0.0   | 0.0                   | 2.6%  |                      | 3.9%  |       |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.579             | 2.316  |       | E       |       | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 1.9%  |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.39              | 1.56   |       | E       |       | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 1.3%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0575            | 0.23   | 1.73  | --      |       | 1.7             | 1.7                      | 0.01    |          | 0.0   | 0.0                   | 1.1%  |                      | 1.7%  |       |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0933            | 0.3732 | 0.324 | --      |       | 0.3             | 0.2                      | 0.01    |          | 0.0   | 0.0                   | 0.2%  |                      | 0.2%  |       |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 5.35              | 21.4   |       | E       | <5x*B | 2.7             |                          | 0.01    |          | 0.0   |                       |       |                      |       | 1.8%  |       |      |       |
| OCDF                | 0.0763            | 0.3052 | 4.06  | J       |       | 4.1             | 2.0                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |
| OCDD                | 0.09              | 0.36   | 38.6  | --      |       | 38.6            | 38.6                     | 0.0001  |          | 0.0   | 0.0                   | 0.3%  |                      | 0.4%  |       |       |      |       |
| PCB-77              | 5.46              | 21.84  |       | E       | <5x*B | 2.7             |                          | 0.0001  |          | 0.0   |                       |       |                      |       | 0.0%  |       |      |       |
| PCB-81              | 0.131             | 0.524  | 0.866 | B       | <5x*B | 0.9             | 0.4                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |
| PCB-105             | 0.728             | 2.912  | 18.9  | B       | <5x*B | 18.9            | 9.5                      | 0.0001  |          | 0.0   | 0.0                   | 0.1%  |                      | 0.1%  |       |       |      |       |
| PCB-114             | 0.761             | 3.044  | 1.18  | B       | <5x*B | 1.2             | 0.3                      | 0.0005  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |
| PCB-118             | 0.851             | 3.404  | 42.7  | B       | <5x*B | 42.7            | 21.4                     | 0.0001  |          | 0.0   | 0.0                   | 0.3%  |                      | 0.2%  |       |       |      |       |
| PCB-123             | 0.967             | 3.868  | 1.07  | --      |       | 1.1             | 0.5                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |
| PCB-126             | 0.399             | 1.596  | 1.49  | --      |       | 1.5             | 0.7                      | 0.1     |          | 0.2   | 0.1                   | 9.7%  |                      | 6.8%  |       |       |      |       |
| PCB-156             | 0.224             | 0.896  | 7.52  | B       | <5x*B | 7.5             | 3.8                      | 0.0005  |          | 0.0   | 0.0                   | 0.2%  |                      | 0.2%  |       |       |      |       |
| PCB-157             | 0.232             | 0.928  | 1.89  | B       | <5x*B | 1.9             | 0.9                      | 0.0005  |          | 0.0   | 0.0                   | 0.1%  |                      | 0.0%  |       |       |      |       |
| PCB-167             | 0.228             | 0.912  | 4.57  | BJ      | <5x*B | 4.6             | 2.3                      | 0.00001 |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |
| PCB-169             | 0.105             | 0.42   | 0.901 | B       | <5x*B | 0.9             | 0.5                      | 0.01    |          | 0.0   | 0.0                   | 0.6%  |                      | 0.5%  |       |       |      |       |
| PCB-189             | 0.137             | 0.548  | 1.53  | B       | <5x*B | 1.5             | 0.8                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  |                      | 0.0%  |       |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 0.9   | 0.2       | 0.1   | 1.5          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 783               | Fine   | Field | NE A-5  | NE    | Agricultural    |                          |       |          |      |                       |      |                      |      |       |       |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|-------|----------|------|-----------------------|------|----------------------|------|-------|-------|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |      |       |       |  |  |
|                     | EDL               | QL     | Conc  | Flag    |       |                 | Full                     | Quant | Human    | Full | Quant                 | Full | Quant                | Full | Quant |       |  |  |
| 2,3,7,8-TCDF        | 0.0256            | 0.1024 | 0.213 | NJ      |       |                 | 0.1                      |       | 0.1      | 0.0  |                       |      | 0.0                  |      | 1.4%  |       |  |  |
| 2,3,7,8-TCDD        | 0.0106            | 0.0424 |       | --      |       |                 | 0.0                      |       | 1        | 0.0  |                       |      | 0.0                  |      | 0.0%  |       |  |  |
| 1,2,3,7,8-PeCDF     | 0.0197            | 0.0788 | 0.146 | --      |       |                 | 0.1                      | 0.1   | 0.05     | 0.0  | 0.0                   |      | 0.0                  |      | 0.7%  | 1.5%  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0172            | 0.0688 | 0.219 | --      |       |                 | 0.2                      | 0.2   | 0.5      | 0.1  | 0.1                   | 0.1  | 0.1                  | 0.1  | 14.5% | 30.1% |  |  |
| 1,2,3,7,8-PeCDD     | 0.298             | 1.192  |       | E       |       |                 | 0.1                      |       | 1        | 0.1  |                       |      | 0.1                  |      | 14.5% |       |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0248            | 0.0992 | 0.234 | B       | <5x*B |                 | 0.2                      | 0.1   | 0.1      | 0.0  | 0.0                   |      | 0.0                  |      | 2.9%  | 3.0%  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.0211            | 0.0844 | 0.2   | --      |       |                 | 0.2                      | 0.2   | 0.1      | 0.0  | 0.0                   |      | 0.0                  |      | 2.9%  | 6.0%  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.616             | 2.464  |       | D       | <5x*B |                 | 0.2                      |       | 0.1      | 0.0  |                       |      | 0.0                  |      | 2.9%  |       |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0274            | 0.1096 | 0.373 | B       | <5x*B |                 | 0.4                      | 0.2   | 0.1      | 0.0  | 0.0                   |      | 0.0                  |      | 5.8%  | 6.0%  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0171            | 0.0684 | 0.271 | --      |       |                 | 0.3                      | 0.3   | 0.1      | 0.0  | 0.0                   |      | 0.0                  |      | 4.3%  | 9.0%  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.448             | 1.792  |       | E       |       |                 | 0.2                      |       | 0.1      | 0.0  |                       |      | 0.0                  |      | 2.9%  |       |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0168            | 0.0672 | 0.338 | --      |       |                 | 0.3                      | 0.3   | 0.1      | 0.0  | 0.0                   |      | 0.0                  |      | 4.3%  | 9.0%  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0269            | 0.1076 | 1.88  | --      |       |                 | 1.9                      | 1.9   | 0.01     | 0.0  | 0.0                   |      | 0.0                  |      | 2.7%  | 5.7%  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0424            | 0.1696 | 0.185 | --      |       |                 | 0.2                      | 0.2   | 0.01     | 0.0  | 0.0                   |      | 0.0                  |      | 0.3%  | 0.6%  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.014             | 0.056  | 8.12  | --      |       |                 | 8.1                      | 8.1   | 0.01     | 0.1  | 0.1                   | 0.1  | 0.1                  | 0.1  | 11.7% | 24.4% |  |  |
| OCDF                | 0.0254            | 0.1016 | 3.81  | J       |       |                 | 3.8                      | 1.9   | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.1%  | 0.1%  |  |  |
| OCDD                | 0.0211            | 0.0844 | 60.4  | --      |       |                 | 60.4                     | 60.4  | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.9%  | 1.8%  |  |  |
| PCB-77              |                   | 11.9   | B     | <5x*B   |       |                 | 11.9                     | 3.0   | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.2%  | 0.1%  |  |  |
| PCB-81              |                   | 0.884  | B     | <5x*B   |       |                 | 0.9                      | 0.2   | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.0%  | 0.0%  |  |  |
| PCB-105             |                   | 57.1   | BJ    | <5x*B   |       |                 | 57.1                     | 14.3  | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.8%  | 0.4%  |  |  |
| PCB-114             |                   | 2.86   | BJ    | <5x*B   |       |                 | 2.9                      | 0.7   | 0.0005   | 0.0  | 0.0                   |      | 0.0                  |      | 0.2%  | 0.1%  |  |  |
| PCB-118             |                   | 145    | BJ    | <5x*B   |       |                 | 145.0                    | 36.3  | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 2.1%  | 1.1%  |  |  |
| PCB-123             |                   | 3.43   | J     |         |       |                 | 3.4                      | 0.9   | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.0%  | 0.0%  |  |  |
| PCB-126             | 2.93              | 11.72  |       | E       |       |                 | 1.5                      |       | 0.1      | 0.2  |                       |      |                      |      | 21.7% |       |  |  |
| PCB-156             |                   | 19.6   | J     |         |       |                 | 19.6                     | 4.9   | 0.0005   | 0.0  | 0.0                   |      | 0.0                  |      | 1.4%  | 0.7%  |  |  |
| PCB-157             |                   | 5.17   | BJ    | <5x*B   |       |                 | 5.2                      | 1.3   | 0.0005   | 0.0  | 0.0                   |      | 0.0                  |      | 0.4%  | 0.2%  |  |  |
| PCB-167             |                   | 10.9   | J     |         |       |                 | 10.9                     | 2.7   | 0.00001  | 0.0  | 0.0                   |      | 0.0                  |      | 0.0%  | 0.0%  |  |  |
| PCB-169             | 0.317             | 1.268  |       | E       | <5x*B |                 | 0.2                      |       | 0.01     | 0.0  |                       |      | 0.0                  |      | 0.3%  |       |  |  |
| PCB-189             |                   | 2.51   | BJ    | <5x*B   |       |                 | 2.5                      | 0.6   | 0.0001   | 0.0  | 0.0                   |      | 0.0                  |      | 0.0%  | 0.0%  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.2       | 0.0   | 0.5          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 411       | Fine              | Field  | NE A-6  | NE   | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.108             | 0.432  | 0.343   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |       |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0109            | 0.0436 | 0.105   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 3.3%                 |       | 3.8%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.432             | 1.728  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |       |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.558             | 2.232  |         | E    |                 | 0.3                      |       | 0.5            | 0.2                   |       | 4.9%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0118            | 0.0472 | 0.418   | B    | <5x*B           | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 13.0%                |       | 7.6%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0602            | 0.2408 | 0.45    | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.6%                 |       | 1.9%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0484            | 0.1936 | 0.415   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.3%                 |       | 0.8%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0548            | 0.2192 | 0.475   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.6%                 |       | 1.9%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0674            | 0.2696 | 0.345   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 1.0%                 |       | 1.1%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0269            | 0.1076 | 0.648   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.0%                 |       | 1.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0235            | 0.094  | 1.08    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 3.6%                 |       | 4.2%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0251            | 0.1004 | 0.925   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.9%                 |       | 3.4%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0467            | 0.1868 | 5.61    | --   |                 | 5.6                      | 5.6   | 0.01           | 0.1                   | 0.1   | 1.8%                 |       | 2.1%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0744            | 0.2976 | 0.561   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0442            | 0.1768 | 27.5    | --   |                 | 27.5                     | 27.5  | 0.01           | 0.3                   | 0.3   | 9.0%                 |       | 10.4% |       |      |       |      |
| OCDF                | 0.0326            | 0.1304 | 11.1    | --   |                 | 11.1                     | 11.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| OCDD                | 0.0391            | 0.1564 | 198     | --   |                 | 198.0                    | 198.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 |       | 0.8%  |       |      |       |      |
| PCB-77              | 0.0247            | 0.0988 | 46.2    | --   |                 | 46.2                     | 46.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |
| PCB-81              | 0.0298            | 0.1192 | 1.84    | B    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 0.975             | 3.9    | 293     | --   |                 | 293.0                    | 293.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 |       | 1.1%  |       |      |       |      |
| PCB-114             | 1.02              | 4.08   | 9.61    | --   |                 | 9.6                      | 9.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |
| PCB-118             | 1.06              | 4.24   | 604     | --   |                 | 604.0                    | 604.0 | 0.0001         | 0.1                   | 0.1   | 2.0%                 |       | 2.3%  |       |      |       |      |
| PCB-123             | 1.21              | 4.84   | 10.6    | J    |                 | 10.6                     | 5.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.282             | 1.128  | 14.1    | --   |                 | 14.1                     | 14.1  | 0.1            | 1.4                   | 1.4   | 46.0%                |       | 53.5% |       |      |       |      |
| PCB-156             | 0.465             | 1.86   | 118     | --   |                 | 118.0                    | 118.0 | 0.0005         | 0.1                   | 0.1   | 1.9%                 |       | 2.2%  |       |      |       |      |
| PCB-157             | 0.481             | 1.924  | 30.6    | --   |                 | 30.6                     | 30.6  | 0.0005         | 0.0                   | 0.0   | 0.5%                 |       | 0.6%  |       |      |       |      |
| PCB-167             | 0.473             | 1.892  | 60.6    | --   |                 | 60.6                     | 60.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.035             | 0.14   | 1.29    | --   |                 | 1.3                      | 1.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 |       | 0.5%  |       |      |       |      |
| PCB-189             | 0.153             | 0.612  | 12.6    | --   |                 | 12.6                     | 12.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.1   | 1.6       | 1.6   | 3.2          | 2.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 731               | Fine   | Field   | NE A-8 | NE              | Agricultural             |       |                |                       |       |                      |       |       |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.125             | 0.5    |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 1.5%  |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.00754           | 0.0302 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0                  |       | 0.0%  |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.063             | 0.252  |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0                  |       | 0.0%  |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.68              | 2.72   |         | E      |                 | 0.3                      |       | 0.5            | 0.2                   |       | 0.2                  |       | 22.0% |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.206             | 0.824  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 0.1                  |       | 14.6% |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0214            | 0.0856 | 0.262   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 4.4%  | 2.9%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.166             | 0.664  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 1.5%  |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.025             | 0.1    |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 0.0%  |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.347             | 1.388  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 2.9%  |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0173            | 0.0692 | 0.231   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.9%  | 5.8%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0153            | 0.0612 | 0.491   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 7.3%  | 14.4% |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.302             | 1.208  |         | EJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 2.9%  |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0436            | 0.1744 | 3.11    | --     |                 | 3.1                      | 3.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 4.5%  | 8.9%  |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0771            | 0.3084 | 0.383   | --     |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.6%  | 1.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.00325           | 0.013  | 14.3    | --     |                 | 14.3                     | 14.3  | 0.01           | 0.1                   | 0.1   | 0.1                  | 0.1   | 20.9% | 41.2% |      |       |      |       |
| OCDF                | 0.0435            | 0.174  | 8.03    | J      |                 | 8.0                      | 4.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.1%  |      |       |      |       |
| OCDD                | 0.0399            | 0.1596 | 148     | --     |                 | 148.0                    | 148.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.2%  | 4.3%  |      |       |      |       |
| PCB-77              | 0.0239            | 0.0956 | 2.28    | B      | <5x*B           | 2.3                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |       |
| PCB-81              | 0.0258            | 0.1032 | 0.378   | --     |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |       |
| PCB-105             | 0.261             | 1.044  | 13.1    | B      | <5x*B           | 13.1                     | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.2%  | 0.2%  |      |       |      |       |
| PCB-114             | 0.273             | 1.092  | 0.659   | B      | <5x*B           | 0.7                      | 0.2   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.0%  |      |       |      |       |
| PCB-118             | 0.272             | 1.088  | 24.3    | B      | <5x*B           | 24.3                     | 12.2  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.4%  |      |       |      |       |
| PCB-123             | 0.714             | 2.856  |         | E      |                 | 0.4                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |       |
| PCB-126             | 0.0594            | 0.2376 | 0.666   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 10.3% | 20.2% |      |       |      |       |
| PCB-156             | 0.406             | 1.624  | 5.78    | B      | <5x*B           | 5.8                      | 2.9   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.4%  |      |       |      |       |
| PCB-157             | 0.419             | 1.676  | 1.63    | B      | <5x*B           | 1.6                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.1%  |      |       |      |       |
| PCB-167             | 0.412             | 1.648  | 3.59    | B      | <5x*B           | 3.6                      | 1.8   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |       |
| PCB-169             | 0.15              | 0.6    |         | E      | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       |                      |       | 0.1%  |       |      |       |      |       |
| PCB-189             | 0.101             | 0.404  | 1.32    | B      | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.2   | 0.1       | 0.1   | 0.6          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 474               | Fine   | Field   | NE A-9 | NE              | Agricultural             |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0125            | 0.05   | --      |        |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0028            | 0.0112 | --      |        |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.00633           | 0.0253 | --      |        |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.00517           | 0.0207 | --      |        |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0136            | 0.0544 | --      |        |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0111            | 0.0444 | 0.0418  | B      | <5x*B           | 0.0                      | 0.0   | 0.1            | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0826            | 0.3304 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0838            | 0.3352 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.329             | 1.316  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 34.6%                |       |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0097            | 0.0388 | --      |        |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.00884           | 0.0354 | --      |        |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.00931           | 0.0372 |         | J      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.286             | 1.144  |         | E      | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 1.7%                 |       |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0288            | 0.1152 | --      |        |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0176            | 0.0704 | 0.978   | B      | <5x*B           | 1.0                      | 0.5   | 0.01           | 0.0                   | 0.0   | 17.3%                |       |      |       |      |       |      |       |
| OCDF                | 0.0237            | 0.0948 | 0.545   | J      |                 | 0.5                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       |      |       |
| OCDD                | 0.0255            | 0.102  | 6.8     | --     |                 | 6.8                      | 6.8   | 0.0001         | 0.0                   | 0.0   | 1.2%                 |       |      |       |      |       |      |       |
| PCB-77              | 0.024             | 0.096  | 1.88    | B      | <5x*B           | 1.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.3%                 |       |      |       |      |       |      |       |
| PCB-81              | 0.0235            | 0.094  | 0.325   | --     |                 | 0.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       |      |       |
| PCB-105             | 0.181             | 0.724  | 8.64    | B      | <5x*B           | 8.6                      | 4.3   | 0.0001         | 0.0                   | 0.0   | 1.5%                 |       |      |       |      |       |      |       |
| PCB-114             | 0.189             | 0.756  | 0.731   | B      | <5x*B           | 0.7                      | 0.2   | 0.0005         | 0.0                   | 0.0   | 0.6%                 |       |      |       |      |       |      |       |
| PCB-118             | 0.186             | 0.744  | 21.3    | B      | <5x*B           | 21.3                     | 10.7  | 0.0001         | 0.0                   | 0.0   | 3.7%                 |       |      |       |      |       |      |       |
| PCB-123             | 0.211             | 0.844  | 0.565   | --     |                 | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       |      |       |
| PCB-126             | 0.0383            | 0.1532 | 0.213   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 34.6%                |       |      |       |      |       |      |       |
| PCB-156             | 0.215             | 0.86   | 2.57    | B      | <5x*B           | 2.6                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 2.2%                 |       |      |       |      |       |      |       |
| PCB-157             | 0.664             | 2.656  |         | E      | <5x*B           | 0.3                      |       | 0.0005         | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |       |
| PCB-167             | 0.219             | 0.876  | 1.21    | B      | <5x*B           | 1.2                      | 0.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       |      |       |
| PCB-169             | 0.124             | 0.496  |         | E      | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 1.7%                 |       |      |       |      |       |      |       |
| PCB-189             | 0.191             | 0.764  | 0.534   | B      | <5x*B           | 0.5                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.0       | 0.0   | 0.0          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 545       | Fine              | Field  | NW A-2  | NW   | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.163             | 0.652  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.0%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0937            | 0.3748 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.224             | 0.896  |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       |                      |       | 0.5%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.163             | 0.652  | 0.238   | --   |                 | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 0.1                  | 0.1   | 10.0% | 7.6%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.126             | 0.504  | 0.257   | --   |                 | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 0.1                  | 0.1   | 30.1% | 15.2% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.184             | 0.736  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.0%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.19              | 0.76   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.0%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.207             | 0.828  | 0.842   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 8.0%  | 12.2% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.352             | 1.408  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 2.0%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.102             | 0.408  | 0.455   | I    |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 5.0%  | 7.6%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.117             | 0.468  | 0.521   | I    |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 5.0%  | 7.6%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0961            | 0.3844 | 0.195   | IJ   |                 | 0.2                      | 0.0   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.0%  | 0.0%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.179             | 0.716  | 2.2     | --   |                 | 2.2                      | 2.2   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.2%  | 3.3%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.445             | 1.78   |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.309             | 1.236  | 10.3    | --   |                 | 10.3                     | 10.3  | 0.01           | 0.1                   | 0.1   | 0.1                  | 0.1   | 10.3% | 15.7% |      |       |      |
| OCDF                | 0.595             | 2.38   | 6.27    | J    |                 | 6.3                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.0%  |      |       |      |
| OCDD                | 0.985             | 3.94   | 72.2    | --   |                 | 72.2                     | 72.2  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.7%  | 1.1%  |      |       |      |
| PCB-77              | 0.0671            | 0.2684 | 5.68    | B    | <5x*B           | 5.7                      | 2.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.0%  |      |       |      |
| PCB-81              | 0.0889            | 0.3556 | 0.857   | --   |                 | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-105             | 0.138             | 0.552  | 38.8    | B    | <5x*B           | 38.8                     | 19.4  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.3%  |      |       |      |
| PCB-114             | 0.144             | 0.576  | 2.1     | --   |                 | 2.1                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.2%  |      |       |      |
| PCB-118             | 0.148             | 0.592  | 93.7    | B    | <5x*B           | 93.7                     | 46.9  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.9%  | 0.7%  |      |       |      |
| PCB-123             | 0.168             | 0.672  | 2.26    | --   |                 | 2.3                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-126             | 0.0724            | 0.2896 | 1.8     | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 0.2                  | 0.2   | 18.0% | 27.4% |      |       |      |
| PCB-156             | 0.127             | 0.508  | 15      | B    | <5x*B           | 15.0                     | 7.5   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.8%  | 0.6%  |      |       |      |
| PCB-157             | 0.131             | 0.524  | 4.1     | B    | <5x*B           | 4.1                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.2%  | 0.2%  |      |       |      |
| PCB-167             | 0.129             | 0.516  | 9.2     | JB   | <5x*B           | 9.2                      | 4.6   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.0788            | 0.3152 | 0.279   | --   |                 | 0.3                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.3%  | 0.2%  |      |       |      |
| PCB-189             | 0.21              | 0.84   | 1.78    | --   |                 | 1.8                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.6   | 0.2       | 0.2   | 1.0          | 0.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 504       | Fine              | Field | NW A-3  | NW   | Agricultural    | Several analytes not reported |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|-------------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations*      |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                          | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 2.14              | 8.56  |         | --   |                 | 1.1                           |       | 0.1            | 0.1                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 3.32              | 13.28 |         | --   |                 | 1.7                           |       | 1              | 1.7                   |       | 21.5%                |       |
| 1,2,3,7,8-PeCDF     | 6.53              | 26.12 |         | I    |                 | 3.3                           |       | 0.05           | 0.2                   |       | 2.1%                 |       |
| 2,3,4,7,8-PeCDF     | 3.84              | 15.36 |         | --   |                 | 1.9                           |       | 0.5            | 1.0                   |       | 12.0%                |       |
| 1,2,3,7,8-PeCDD     |                   |       |         | I    |                 |                               |       | 1              |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDF   | 8.28              | 33.12 |         | --   |                 | 4.1                           |       | 0.1            | 0.4                   |       | 5.2%                 |       |
| 1,2,3,6,7,8-HxCDF   | 8.48              | 33.92 |         | --   |                 | 4.2                           |       | 0.1            | 0.4                   |       | 5.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 11.1              | 44.4  | 27.7    | D    |                 | 13.9                          |       | 0.1            | 1.4                   |       | 17.6%                |       |
| 1,2,3,7,8,9-HxCDF   | 11.8              | 47.2  |         | --   |                 | 5.9                           |       | 0.1            | 0.6                   |       | 7.5%                 |       |
| 1,2,3,4,7,8-HxCDD   | 10.8              | 43.2  |         | --   |                 | 5.4                           |       | 0.1            | 0.5                   |       | 6.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 12.4              | 49.6  |         | --   |                 | 6.2                           |       | 0.1            | 0.6                   |       | 7.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 10.2              | 40.8  |         | J    |                 | 5.1                           |       | 0.1            | 0.5                   |       | 6.5%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 54                | 216   |         | D    |                 | 13.5                          |       | 0.01           | 0.1                   |       | 1.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 26.6              | 106.4 |         | I    |                 | 13.3                          |       | 0.01           | 0.1                   |       | 1.7%                 |       |
| 1,2,3,4,6,7,8-HpCDD |                   |       |         | I    |                 |                               |       | 0.01           |                       |       |                      |       |
| OCDF                | 71.2              | 284.8 |         | R    |                 | 35.6                          |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 238               | 952   | 338     | R    |                 | 119.0                         |       | 0.0001         | 0.0                   |       | 0.2%                 |       |
| PCB-77              | 0.194             | 0.776 | 5.46    | BI   | <5x*B           | 5.5                           | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.3%  |
| PCB-81              | 0.596             | 2.384 |         | EI   |                 | 0.3                           |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.175             | 0.7   | 32.7    | B    | <5x*B           | 32.7                          | 16.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 1.6%  |
| PCB-114             | 0.183             | 0.732 | 1.68    | --   |                 | 1.7                           | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.8%  |
| PCB-118             | 0.196             | 0.784 | 72.6    | B    | <5x*B           | 72.6                          | 36.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 3.6%  |
| PCB-123             | 0.223             | 0.892 | 1.67    | --   |                 | 1.7                           | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.2%  |
| PCB-126             | 0.499             | 1.996 | 1.77    | I    |                 | 1.8                           | 0.9   | 0.1            | 0.2                   | 0.1   | 2.3%                 | 89.1% |
| PCB-156             | 0.291             | 1.164 | 13.8    | B    | <5x*B           | 13.8                          | 6.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 3.4%  |
| PCB-157             | 0.301             | 1.204 | 3.59    | B    | <5x*B           | 3.6                           | 1.8   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.9%  |
| PCB-167             | 0.296             | 1.184 | 8.84    | JB   | <5x*B           | 8.8                           | 4.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.716             | 2.864 |         | E    |                 | 0.4                           |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 2.45              | 9.8   |         | E    |                 | 1.2                           |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.6               |       | 0.2       | 0.1   | 7.8          | 0.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 129       | Fine              | Field  | NW A-5  | NW   | Agricultural    | Replacement sample for 175. |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|-----------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*    |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                        | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.14              | 0.56   | 0.737   | NJ   |                 | 0.4                         |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.0319            | 0.1276 | 0.193   | --   |                 | 0.2                         | 0.2   | 1              | 0.2                   | 0.2   | 3.3%                 | 3.6%  |
| 1,2,3,7,8-PeCDF     | 0.391             | 1.564  |         | E    | <5x*B           | 0.2                         |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0256            | 0.1024 | 0.6     | --   |                 | 0.6                         | 0.6   | 0.5            | 0.3                   | 0.3   | 4.9%                 | 5.4%  |
| 1,2,3,7,8-PeCDD     | 0.754             | 3.016  |         | E    | <5x*B           | 0.4                         |       | 1              | 0.4                   |       | 6.6%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.828             | 3.312  |         | E    | <5x*B           | 0.4                         |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0691            | 0.2764 | 1.24    | --   |                 | 1.2                         | 1.2   | 0.1            | 0.1                   | 0.1   | 2.0%                 | 2.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0857            | 0.3428 | 0.698   | --   |                 | 0.7                         | 0.7   | 0.1            | 0.1                   | 0.1   | 1.2%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0959            | 0.3836 | 0.471   | --   |                 | 0.5                         | 0.5   | 0.1            | 0.1                   | 0.1   | 0.8%                 | 0.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.0788            | 0.3152 | 1.47    | --   |                 | 1.5                         | 1.5   | 0.1            | 0.2                   | 0.2   | 2.5%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0641            | 0.2564 | 6.38    | --   |                 | 6.4                         | 6.4   | 0.1            | 0.6                   | 0.6   | 10.5%                | 11.5% |
| 1,2,3,7,8,9-HxCDD   | 0.0666            | 0.2664 | 3.32    | --   |                 | 3.3                         | 3.3   | 0.1            | 0.3                   | 0.3   | 5.4%                 | 5.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0953            | 0.3812 | 13      | --   |                 | 13.0                        | 13.0  | 0.01           | 0.1                   | 0.1   | 2.1%                 | 2.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.138             | 0.552  | 0.99    | --   |                 | 1.0                         | 1.0   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0777            | 0.3108 | 223     | --   |                 | 223.0                       | 223.0 | 0.01           | 2.2                   | 2.2   | 36.7%                | 39.9% |
| OCDF                | 0.122             | 0.488  | 49.1    | --   |                 | 49.1                        | 49.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.136             | 0.544  | 995     | --   |                 | 995.0                       | 995.0 | 0.0001         | 0.1                   | 0.1   | 1.6%                 | 1.8%  |
| PCB-77              | 0.0683            | 0.2732 | 89.5    | --   |                 | 89.5                        | 89.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.0766            | 0.3064 | 3.34    | B    | <5x*B           | 3.3                         | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 6.1               | 24.4   | 477     | --   |                 | 477.0                       | 477.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| PCB-114             | 6.42              | 25.68  |         | --   | <5x*B           | 3.2                         |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 7.07              | 28.28  | 936     | --   |                 | 936.0                       | 936.0 | 0.0001         | 0.1                   | 0.1   | 1.5%                 | 1.7%  |
| PCB-123             | 7.78              | 31.12  | 24.1    | --   |                 | 24.1                        | 12.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.932             | 3.728  | 8.75    | --   |                 | 8.8                         | 8.8   | 0.1            | 0.9                   | 0.9   | 14.5%                | 15.7% |
| PCB-156             | 1.37              | 5.48   | 305     | --   |                 | 305.0                       | 305.0 | 0.0005         | 0.2                   | 0.2   | 2.5%                 | 2.7%  |
| PCB-157             | 1.43              | 5.72   | 114     | --   |                 | 114.0                       | 114.0 | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-167             | 1.37              | 5.48   | 168     | --   |                 | 168.0                       | 168.0 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.151             | 0.604  | 0.653   | --   |                 | 0.7                         | 0.7   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.484             | 1.936  | 42.4    | --   |                 | 42.4                        | 42.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.7               | 4.3   | 1.3       | 1.3   | 6.0          | 5.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 175       | Fine              | Field  | NW A-5  | NW   | Agricultural    | March sample broke, spilled soil analyzed. Replaced by April sample 129. |        |                |                       |       |                      |       |  |
|---------------------|-------------------|--------|---------|------|-----------------|--|--------|----------------|-----------------------|-------|----------------------|-------|--|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*   |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |
|                     | EDL               | QL     | Conc    | Flag |                 | Full   | Quant  |                | Full                  | Quant | Full                 | Quant |  |
| 2,3,7,8-TCDF        | 0.101             | 0.404  | 1.55    | NJ   |                 | 0.8  |        | 0.1            | 0.1                   |       | 0.8%                 |       |  |
| 2,3,7,8-TCDD        | 0.0197            | 0.0788 | 0.362   | --   |                 | 0.4  | 0.4    | 1              | 0.4                   | 0.4   | 3.8%                 | 4.4%  |  |
| 1,2,3,7,8-PeCDF     | 0.0589            | 0.2356 | 0.816   | B    | <5x*B           | 0.8  | 0.4    | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |  |
| 2,3,4,7,8-PeCDF     | 1.24              | 4.96   |         | E    |                 | 0.6  |        | 0.5            | 0.3                   |       | 2.8%                 |       |  |
| 1,2,3,7,8-PeCDD     | 1.62              | 6.48   |         | E    | <5x*B           | 0.8  |        | 1              | 0.8                   |       | 7.6%                 |       |  |
| 1,2,3,4,7,8-HxCDF   | 0.165             | 0.66   | 1.47    | --   |                 | 1.5  | 1.5    | 0.1            | 0.2                   | 0.2   | 1.4%                 | 1.6%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.144             | 0.576  | 1.6     | --   |                 | 1.6  | 1.6    | 0.1            | 0.2                   | 0.2   | 1.5%                 | 1.7%  |  |
| 2,3,4,6,7,8-HxCDF   | 0.964             | 3.856  |         | E    |                 | 0.5  |        | 0.1            | 0.1                   |       | 0.5%                 |       |  |
| 1,2,3,7,8,9-HxCDF   | 0.196             | 0.784  | 0.948   | --   |                 | 0.9  | 0.9    | 0.1            | 0.1                   | 0.1   | 0.9%                 | 1.0%  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0923            | 0.3692 | 2.37    | --   |                 | 2.4  | 2.4    | 0.1            | 0.2                   | 0.2   | 2.3%                 | 2.6%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0769            | 0.3076 | 12.2    | --   |                 | 12.2   | 12.2   | 0.1            | 1.2                   | 1.2   | 11.6%                | 13.3% |  |
| 1,2,3,7,8,9-HxCDD   | 0.0792            | 0.3168 | 6.42    | --   |                 | 6.4  | 6.4    | 0.1            | 0.6                   | 0.6   | 6.1%                 | 7.0%  |  |
| 1,2,3,4,6,7,8-HpCDF | 14.7              | 58.8   |         | D    | <5x*B           | 3.7  |        | 0.01           | 0.0                   |       | 0.4%                 |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.183             | 0.732  | 1.56    | --   |                 | 1.6  | 1.6    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0225            | 0.09   | 396     | --   |                 | 396.0  | 396.0  | 0.01           | 4.0                   | 4.0   | 37.6%                | 43.3% |  |
| OCDF                | 0.0448            | 0.1792 | 45.4    | --   |                 | 45.4   | 45.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| OCDD                | 0.0498            | 0.1992 | 1540    | --   |                 | 1540.0   | 1540.0 | 0.0001         | 0.2                   | 0.2   | 1.5%                 | 1.7%  |  |
| PCB-77              | 0.0787            | 0.3148 | 142     | --   |                 | 142.0  | 142.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |  |
| PCB-81              | 0.0855            | 0.342  | 4.22    | --   |                 | 4.2  | 4.2    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-105             | 2.85              | 11.4   | 1010    | --   |                 | 1010.0   | 1010.0 | 0.0001         | 0.1                   | 0.1   | 1.0%                 | 1.1%  |  |
| PCB-114             | 3                 | 12     | 24      | --   |                 | 24.0   | 24.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |
| PCB-118             | 3.17              | 12.68  | 1750    | CJ   |                 | 1750.0   | 875.0  | 0.0001         | 0.2                   | 0.1   | 1.7%                 | 1.0%  |  |
| PCB-123             | 3.48              | 13.92  | 60.6    | --   |                 | 60.6   | 60.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |
| PCB-126             | 0.726             | 2.904  | 15      | --   |                 | 15.0   | 15.0   | 0.1            | 1.5                   | 1.5   | 14.2%                | 16.4% |  |
| PCB-156             | 1.07              | 4.28   | 504     | --   |                 | 504.0  | 504.0  | 0.0005         | 0.3                   | 0.3   | 2.4%                 | 2.8%  |  |
| PCB-157             | 1.12              | 4.48   | 232     | --   |                 | 232.0  | 232.0  | 0.0005         | 0.1                   | 0.1   | 1.1%                 | 1.3%  |  |
| PCB-167             | 1.07              | 4.28   | 297     | --   |                 | 297.0  | 297.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-169             | 1.47              | 5.88   |         | E    |                 | 0.7  |        | 0.01           | 0.0                   |       | 0.1%                 |       |  |
| PCB-189             | 0.276             | 1.104  | 58.3    | --   |                 | 58.3   | 58.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 8.4               | 7.1   | 2.2       | 2.1   | 10.6         | 9.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 402               | Fine   | Field   | SE A-1 | SE              | Agricultural             |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.134             | 0.536  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 2,3,7,8-TCDD        | 0.00471           | 0.0188 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0185            | 0.074  |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0158            | 0.0632 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00553           | 0.0221 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0136            | 0.0544 | 0.113   | B      | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 6.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.174             | 0.696  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0143            | 0.0572 | 0.193   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 7.7%                 | 13.5% |
| 1,2,3,7,8,9-HxCDF   | 0.0168            | 0.0672 | 0.435   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 15.5%                | 27.1% |
| 1,2,3,4,7,8-HxCDD   | 0.282             | 1.128  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0197            | 0.0788 | 0.215   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 7.7%                 | 13.5% |
| 1,2,3,7,8,9-HxCDD   | 0.181             | 0.724  |         | EJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.703             | 2.812  |         | E      | <5x*B           | 0.4                      |       | 0.01           | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0414            | 0.1656 |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0235            | 0.094  | 3.45    | B      | <5x*B           | 3.5                      | 1.7   | 0.01           | 0.0                   | 0.0   | 13.5%                | 11.5% |
| OCDF                | 0.0475            | 0.19   | 1.6     | J      |                 | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0427            | 0.1708 | 28.2    | --     |                 | 28.2                     | 28.2  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.9%  |
| PCB-77              | 0.0287            | 0.1148 | 4.21    | B      | <5x*B           | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.0307            | 0.1228 | 0.518   | --     |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.297             | 1.188  | 23.2    | BJ     | <5x*B           | 23.2                     | 11.6  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.8%  |
| PCB-114             | 0.31              | 1.24   | 1.57    | BJ     | <5x*B           | 1.6                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-118             | 0.331             | 1.324  | 54.6    | BJ     | <5x*B           | 54.6                     | 27.3  | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 1.8%  |
| PCB-123             | 0.376             | 1.504  | 1.46    | --     |                 | 1.5                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-126             | 0.205             | 0.82   | 0.657   | --     |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 27.1%                | 20.3% |
| PCB-156             | 0.198             | 0.792  | 10      | B      | <5x*B           | 10.0                     | 5.0   | 0.0005         | 0.0                   | 0.0   | 1.9%                 | 1.7%  |
| PCB-157             | 0.205             | 0.82   | 2.66    | B      | <5x*B           | 2.7                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-167             | 0.201             | 0.804  | 5.11    | B      | <5x*B           | 5.1                      | 2.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.223             | 0.892  |         | E      | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| PCB-189             | 0.171             | 0.684  | 1.54    | B      | <5x*B           | 1.5                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.1       | 0.0   | 0.1          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 879               | Fine   | Field   | SE A-2 | SE              | Agricultural             |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0614            | 0.2456 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0252            | 0.1008 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0161            | 0.0644 | 0.15    | --     |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.5%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.176             | 0.704  |         | E      |                 | 0.1                      |       | 0.5            | 0.1                   |       | 7.4%                 |       |
| 1,2,3,7,8-PeCDD     | 0.269             | 1.076  |         | E      | <5x*B           | 0.1                      |       | 1              | 0.1                   |       | 14.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0323            | 0.1292 | 0.17    | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0287            | 0.1148 | 0.27    | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.4%                 | 2.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.032             | 0.128  |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.038             | 0.152  | 0.424   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 8.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0179            | 0.0716 | 0.471   | B      | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 7.4%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0218            | 0.0872 | 0.576   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 8.9%                 | 12.9% |
| 1,2,3,7,8,9-HxCDD   | 0.0201            | 0.0804 | 0.529   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 7.4%                 | 10.7% |
| 1,2,3,4,6,7,8-HpCDF | 0.0354            | 0.1416 | 2.33    | --     |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 3.4%                 | 4.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.046             | 0.184  | 0.154   | --     |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0252            | 0.1008 | 8.79    | --     |                 | 8.8                      | 8.8   | 0.01           | 0.1                   | 0.1   | 13.1%                | 18.9% |
| OCDF                | 0.0228            | 0.0912 | 4.31    | --     |                 | 4.3                      | 4.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0215            | 0.086  | 69.9    | --     |                 | 69.9                     | 69.9  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| PCB-77              | 0.0166            | 0.0664 | 6.91    | B      | <5x*B           | 6.9                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0159            | 0.0636 | 0.463   | B      | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.187             | 0.748  | 54.1    | --     |                 | 54.1                     | 54.1  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| PCB-114             | 0.195             | 0.78   | 3.36    | B      | <5x*B           | 3.4                      | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-118             | 0.192             | 0.768  | 126     | B      | <5x*B           | 126.0                    | 63.0  | 0.0001         | 0.0                   | 0.0   | 1.9%                 | 1.4%  |
| PCB-123             | 0.218             | 0.872  | 2.89    | J      |                 | 2.9                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0863            | 0.3452 | 1.13    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 16.3%                | 23.6% |
| PCB-156             | 0.186             | 0.744  | 15.7    | --     |                 | 15.7                     | 15.7  | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 1.7%  |
| PCB-157             | 0.192             | 0.768  | 4.01    | --     |                 | 4.0                      | 4.0   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.189             | 0.756  | 7.87    | --     |                 | 7.9                      | 7.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0467            | 0.1868 | 0.313   | --     |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-189             | 0.0807            | 0.3228 | 1.47    | --     |                 | 1.5                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.3   | 0.1       | 0.1   | 0.7          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 177       | Fine              | Field  | SE A-3  | SE    | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.034             | 0.136  | 0.145   | NJ    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 0.8%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0397            | 0.1588 |         | --    |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0                  |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.16              | 0.64   | 0.181   | B     | <5x*B           | 0.2                      | 0.0   | 0.05           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.8%  | 0.0%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.128             | 0.512  | 0.256   | B     | <5x*B           | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 0.1                  | 0.2   | 12.5% | 5.7%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0547            | 0.2188 | 0.348   | B     | <5x*B           | 0.3                      | 0.2   | 1              | 0.3                   | 0.2   | 0.2                  | 0.2   | 25.0% | 22.9% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0721            | 0.2884 | 0.222   | B     | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 1.7%  | 1.1%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0647            | 0.2588 | 0.306   | B     | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.5%  | 2.3%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0756            | 0.3024 | 0.324   | B     | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.5%  | 2.3%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0801            | 0.3204 | 0.306   | B     | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 2.5%  | 1.1%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.044             | 0.176  | 0.374   | J     |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.0   | 3.3%  | 2.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0377            | 0.1508 | 0.536   | --    |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.1   | 4.2%  | 5.7%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0361            | 0.1444 | 0.635   | J     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 0.0                  | 0.0   | 5.0%  | 3.4%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0567            | 0.2268 | 1.97    | --    |                 | 2.0                      | 2.0   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 1.7%  | 2.3%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0879            | 0.3516 | 0.154   | --    |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.2%  | 0.1%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0637            | 0.2548 | 12      | --    |                 | 12.0                     | 12.0  | 0.01           | 0.1                   | 0.1   | 0.1                  | 0.1   | 10.0% | 13.8% |      |       |      |
| OCDF                | 0.0668            | 0.2672 | 4.77    | --    |                 | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.1%  |      |       |      |
| OCDD                | 0.08              | 0.32   | 105     | --    |                 | 105.0                    | 105.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.9%  | 1.2%  |      |       |      |
| PCB-77              | 0.0575            | 0.23   | 8.26    | B     | <5x*B           | 8.3                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.0%  |      |       |      |
| PCB-81              | 0.0941            | 0.3764 | 0.91    | B     | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-105             | 0.212             | 0.848  | 39.5    | B     | <5x*B           | 39.5                     | 19.8  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.3%  | 0.2%  |      |       |      |
| PCB-114             | 0.221             | 0.884  | 1.85    | --    |                 | 1.9                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.1%  | 0.1%  |      |       |      |
| PCB-118             | 0.221             | 0.884  | 87.3    | B     | <5x*B           | 87.3                     | 43.7  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.7%  | 0.5%  |      |       |      |
| PCB-123             | 0.251             | 1.004  | 1.94    | --    |                 | 1.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-126             | 0.235             | 0.94   | 2.89    | --    |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.3                  | 0.3   | 24.1% | 33.3% |      |       |      |
| PCB-156             | 0.151             | 0.604  | 16.4    | --    |                 | 16.4                     | 16.4  | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.7%  | 0.9%  |      |       |      |
| PCB-157             | 0.89              | 3.56   | E       | <5x*B |                 | 0.4                      |       | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  |       |      |       |      |
| PCB-167             | 0.153             | 0.612  | 9.5     | --    |                 | 9.5                      | 9.5   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.15              | 0.6    | 0.548   | --    |                 | 0.5                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.4%  | 0.3%  |      |       |      |
| PCB-189             | 0.121             | 0.484  | 2.88    | --    |                 | 2.9                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0   | 0.0%  | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.5   | 0.3       | 0.3   | 1.1          | 0.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 311       | Fine              | Field  | SE A-4  | SE   | Agricultural    |                          |       |                |                       |       |                      |       |      |       |       |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|-------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |       |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full  | Quant | Full |
| 2,3,7,8-TCDF        | 0.03              | 0.12   | 1.03    | NJ   |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      |       |      |       | 0.9%  |       |      |
| 2,3,7,8-TCDD        | 0.198             | 0.792  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       |      |       | 1.8%  |       |      |
| 1,2,3,7,8-PeCDF     | 0.491             | 1.964  | 2.09    | --   |                 | 2.1                      | 2.1   | 0.05           | 0.1                   | 0.1   |                      |       |      |       | 1.9%  | 2.0%  |      |
| 2,3,4,7,8-PeCDF     | 0.413             | 1.652  | 2.35    | --   |                 | 2.4                      | 2.4   | 0.5            | 1.2                   | 1.2   |                      |       |      |       | 21.4% | 22.4% |      |
| 1,2,3,7,8-PeCDD     | 0.0809            | 0.3236 | 1.03    | --   |                 | 1.0                      | 1.0   | 1              | 1.0                   | 1.0   |                      |       |      |       | 17.8% | 18.7% |      |
| 1,2,3,4,7,8-HxCDF   | 0.076             | 0.304  | 4.48    | --   |                 | 4.5                      | 4.5   | 0.1            | 0.5                   | 0.5   |                      |       |      |       | 8.0%  | 8.4%  |      |
| 1,2,3,6,7,8-HxCDF   | 0.0687            | 0.2748 | 2.97    | --   |                 | 3.0                      | 3.0   | 0.1            | 0.3                   | 0.3   |                      |       |      |       | 5.3%  | 5.6%  |      |
| 2,3,4,6,7,8-HxCDF   | 0.0827            | 0.3308 | 4.95    | --   |                 | 5.0                      | 5.0   | 0.1            | 0.5                   | 0.5   |                      |       |      |       | 8.9%  | 9.3%  |      |
| 1,2,3,7,8,9-HxCDF   | 0.0852            | 0.3408 | 2.03    | B    | <5x*B           | 2.0                      | 1.0   | 0.1            | 0.2                   | 0.1   |                      |       |      |       | 3.6%  | 1.9%  |      |
| 1,2,3,4,7,8-HxCDD   | 0.0647            | 0.2588 | 0.952   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   |                      |       |      |       | 1.8%  | 1.9%  |      |
| 1,2,3,6,7,8-HxCDD   | 0.0561            | 0.2244 | 1.88    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   |                      |       |      |       | 3.4%  | 3.5%  |      |
| 1,2,3,7,8,9-HxCDD   | 0.0535            | 0.214  | 1.66    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   |                      |       |      |       | 3.0%  | 3.2%  |      |
| 1,2,3,4,6,7,8-HpCDF | 0.135             | 0.54   | 22      | --   |                 | 22.0                     | 22.0  | 0.01           | 0.2                   | 0.2   |                      |       |      |       | 3.9%  | 4.1%  |      |
| 1,2,3,4,7,8,9-HpCDF | 0.206             | 0.824  | 3.02    | --   |                 | 3.0                      | 3.0   | 0.01           | 0.0                   | 0.0   |                      |       |      |       | 0.5%  | 0.6%  |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0916            | 0.3664 | 31      | --   |                 | 31.0                     | 31.0  | 0.01           | 0.3                   | 0.3   |                      |       |      |       | 5.5%  | 5.8%  |      |
| OCDF                | 0.038             | 0.152  | 24.9    | --   |                 | 24.9                     | 24.9  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |
| OCDD                | 0.0517            | 0.2068 | 235     | --   |                 | 235.0                    | 235.0 | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.4%  | 0.4%  |      |
| PCB-77              | 0.0782            | 0.3128 | 17.4    | B    | <5x*B           | 17.4                     | 8.7   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |
| PCB-81              | 0.0897            | 0.3588 | 1.04    | B    | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |
| PCB-105             | 0.781             | 3.124  | 64.9    | B    | <5x*B           | 64.9                     | 32.5  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.1%  | 0.1%  |      |
| PCB-114             | 0.777             | 3.108  | 2.26    | --   |                 | 2.3                      | 1.1   | 0.0005         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |
| PCB-118             | 0.607             | 2.428  | 132     | B    | <5x*B           | 132.0                    | 66.0  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.2%  | 0.1%  |      |
| PCB-123             | 0.683             | 2.732  | 27.2    | --   |                 | 27.2                     | 27.2  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.1%  |      |
| PCB-126             | 0.163             | 0.652  | 6.1     | --   |                 | 6.1                      | 6.1   | 0.1            | 0.6                   | 0.6   |                      |       |      |       | 10.9% | 11.4% |      |
| PCB-156             | 0.649             | 2.596  | 30      | --   |                 | 30.0                     | 30.0  | 0.0005         | 0.0                   | 0.0   |                      |       |      |       | 0.3%  | 0.3%  |      |
| PCB-157             | 8.96              | 35.84  |         | E    |                 | 4.5                      |       | 0.0005         | 0.0                   |       |                      |       |      |       | 0.0%  |       |      |
| PCB-167             | 0.63              | 2.52   | 19.3    | --   |                 | 19.3                     | 19.3  | 0.00001        | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |
| PCB-169             | 0.0827            | 0.3308 | 1.37    | --   |                 | 1.4                      | 1.4   | 0.01           | 0.0                   | 0.0   |                      |       |      |       | 0.2%  | 0.3%  |      |
| PCB-189             | 0.828             | 3.312  | 6.39    | --   |                 | 6.4                      | 6.4   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       | 0.0%  | 0.0%  |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.0               | 4.7   | 0.6       | 0.6   | 5.6          | 5.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 623               | Fine   | Field   | SE A-5 | SE              | Agricultural             |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0573            | 0.2292 | 0.262   | NJ     |                 | 0.1                      |       | 0.1      | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0232            | 0.0928 |         | --     |                 | 0.0                      |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.295             | 1.18   |         | E      |                 | 0.1                      |       | 0.05     | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0823            | 0.3292 | 0.491   | --     |                 | 0.5                      | 0.5   | 0.5      | 0.3                   | 0.3   | 10.0%                | 11.6% |
| 1,2,3,7,8-PeCDD     | 0.0908            | 0.3632 | 0.714   | --     |                 | 0.7                      | 0.7   | 1        | 0.7                   | 0.7   | 27.9%                | 32.4% |
| 1,2,3,4,7,8-HxCDF   | 0.157             | 0.628  | 0.683   | I      |                 | 0.7                      | 0.7   | 0.1      | 0.1                   | 0.1   | 2.8%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.143             | 0.572  | 1.49    | BI     | <5x*B           | 1.5                      | 0.7   | 0.1      | 0.2                   | 0.1   | 6.0%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.226             | 0.904  | 0.976   | --     |                 | 1.0                      | 1.0   | 0.1      | 0.1                   | 0.1   | 4.0%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.431             | 1.724  | 0.517   | B      | <5x*B           | 0.5                      | 0.1   | 0.1      | 0.1                   | 0.0   | 2.0%                 | 0.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.895             | 3.58   |         | E      |                 | 0.4                      |       | 0.1      | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDD   | 1.33              | 5.32   |         | E      |                 | 0.7                      |       | 0.1      | 0.1                   |       | 2.8%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0574            | 0.2296 | 0.57    | J      |                 | 0.6                      | 0.3   | 0.1      | 0.1                   | 0.0   | 2.4%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 11.1              | 44.4   |         | I      | <5x*B           | 5.6                      |       | 0.01     | 0.1                   |       | 2.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.176             | 0.704  |         | --     |                 | 0.1                      |       | 0.01     | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.174             | 0.696  | 35.2    | --     |                 | 35.2                     | 35.2  | 0.01     | 0.4                   | 0.4   | 14.0%                | 16.3% |
| OCDF                | 0.585             | 2.34   | 30.3    | --     |                 | 30.3                     | 30.3  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.551             | 2.204  | 235     | --     |                 | 235.0                    | 235.0 | 0.0001   | 0.0                   | 0.0   | 0.9%                 | 1.1%  |
| PCB-77              | 0.124             | 0.496  | 17.6    | B      | <5x*B           | 17.6                     | 8.8   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.111             | 0.444  | 0.748   | B      | <5x*B           | 0.7                      | 0.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.447             | 1.788  | 123     | --     |                 | 123.0                    | 123.0 | 0.0001   | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.441             | 1.764  | 5.78    | --     |                 | 5.8                      | 5.8   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.363             | 1.452  | 272     | BI     | <5x*B           | 272.0                    | 136.0 | 0.0001   | 0.0                   | 0.0   | 1.1%                 | 0.6%  |
| PCB-123             | 0.412             | 1.648  | 7.1     | I      |                 | 7.1                      | 7.1   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.356             | 1.424  | 4.76    | --     |                 | 4.8                      | 4.8   | 0.1      | 0.5                   | 0.5   | 19.1%                | 22.2% |
| PCB-156             | 0.182             | 0.728  | 60.3    | --     |                 | 60.3                     | 60.3  | 0.0005   | 0.0                   | 0.0   | 1.2%                 | 1.4%  |
| PCB-157             | 0.184             | 0.736  | 14.7    | --     |                 | 14.7                     | 14.7  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.174             | 0.696  | 29.7    | J      |                 | 29.7                     | 14.9  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.06              | 0.24   | 0.573   | B      | <5x*B           | 0.6                      | 0.3   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.173             | 0.692  | 5.22    | --     |                 | 5.2                      | 5.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.2               | 1.7   | 0.5       | 0.5   | 2.7          | 2.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 383       | Fine              | Field  | SE A-6  | SE   | Agricultural    |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.46              | 1.84   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.146             | 0.584  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 2.5%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0625            | 0.25   | 0.521   | B    | <5x*B           | 0.5                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.6%                 | 0.4%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0652            | 0.2608 | 1.71    | --   |                 | 1.7                      | 1.7   | 0.5            | 0.9                   | 0.9   | 20.9%                | 23.7% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.075             | 0.3    | 0.71    | --   |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   | 17.2%                | 19.5% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 1.21              | 4.84   |         | --   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 1.5%                 |       |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0226            | 0.0904 | 2.18    | D    |                 | 1.1                      |       | 0.1            | 0.1                   |       | 2.7%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0411            | 0.1644 | 1.46    | B    | <5x*B           | 1.5                      | 0.7   | 0.1            | 0.2                   | 0.1   | 3.7%                 | 2.0%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0384            | 0.1536 | 0.514   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.2%                 | 0.8%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0241            | 0.0964 | 0.947   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 2.5%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0189            | 0.0756 | 1.9     | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 4.7%                 | 5.3%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0232            | 0.0928 | 1.5     | J    |                 | 1.5                      | 0.8   | 0.1            | 0.2                   | 0.1   | 3.7%                 | 2.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.039             | 0.156  | 14.3    | --   |                 | 14.3                     | 14.3  | 0.01           | 0.1                   | 0.1   | 3.5%                 | 4.0%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0785            | 0.314  | 0.948   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0597            | 0.2388 | 52.2    | --   |                 | 52.2                     | 52.2  | 0.01           | 0.5                   | 0.5   | 12.8%                | 14.5% |      |       |      |       |      |
| OCDF                | 0.0875            | 0.35   | 32.6    | --   |                 | 32.6                     | 32.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.174             | 0.696  | 421     | --   |                 | 421.0                    | 421.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 0.0562            | 0.2248 | 30.1    | --   |                 | 30.1                     | 30.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.0551            | 0.2204 | 1.28    | B    | <5x*B           | 1.3                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.754             | 3.016  | 100     | --   |                 | 100.0                    | 100.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 0.767             | 3.068  | 3.48    | B    | <5x*B           | 3.5                      | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 0.615             | 2.46   | 208     | --   |                 | 208.0                    | 208.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |      |       |      |       |      |
| PCB-123             | 0.717             | 2.868  |         | --   | <5x*B           | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.319             | 1.276  | 7.82    | --   |                 | 7.8                      | 7.8   | 0.1            | 0.8                   | 0.8   | 19.2%                | 21.7% |      |       |      |       |      |
| PCB-156             | 0.312             | 1.248  | 37.3    | --   |                 | 37.3                     | 37.3  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |      |       |      |       |      |
| PCB-157             | 0.325             | 1.3    | 10.7    | --   |                 | 10.7                     | 10.7  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.299             | 1.196  | 24      | J    |                 | 24.0                     | 12.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0311            | 0.1244 | 0.902   | B    | <5x*B           | 0.9                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-189             | 0.312             | 1.248  | 6.87    | --   |                 | 6.9                      | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.3               | 2.7   | 0.8       | 0.8   | 4.1          | 3.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 934               | Fine   | Field   | SE A-7 | SE              | Agricultural             |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0685            | 0.274  | 0.123   | BNJ    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 2,3,7,8-TCDD        | 0.0939            | 0.3756 | 0.217   | --     |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 32.5%                | 46.9% |
| 1,2,3,7,8-PeCDF     | 0.273             | 1.092  | 0.334   | --     |                 | 0.3                      | 0.2   | 0.05           | 0.0                   | 0.0   | 2.4%                 | 4.7%  |
| 2,3,4,7,8-PeCDF     | 0.224             | 0.896  | 0.139   | --     |                 | 0.1                      |       | 0.5            | 0.1                   |       | 8.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.284             | 1.136  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 16.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0736            | 0.2944 | 0.19    | --     |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 4.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.179             | 0.716  |         | E      | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0778            | 0.3112 | 0.279   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.9%                 | 4.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0918            | 0.3672 | 0.386   | BI     | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 6.5%                 | 9.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.109             | 0.436  | 0.213   | I      |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 4.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.206             | 0.824  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.254             | 1.016  |         | EI     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.119             | 0.476  | 0.847   | --     |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 1.3%                 | 3.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.167             | 0.668  | 0.177   | I      |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0902            | 0.3608 | 3.48    | I      |                 | 3.5                      | 3.5   | 0.01           | 0.0                   | 0.0   | 5.7%                 | 16.4% |
| OCDF                | 0.121             | 0.484  | 2.07    | I      |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.131             | 0.524  | 27.9    | I      |                 | 27.9                     | 27.9  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.3%  |
| PCB-77              | 0.179             | 0.716  | 3.73    | B      | <5x*B           | 3.7                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.224             | 0.896  | 0.728   | BI     | <5x*B           | 0.7                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.951             | 3.804  | 15      | B      | <5x*B           | 15.0                     | 7.5   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-114             | 0.945             | 3.78   | 1.04    | --     |                 | 1.0                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.738             | 2.952  | 32.9    | B      | <5x*B           | 32.9                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-123             | 5.4               | 21.6   |         | E      |                 | 2.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.735             | 2.94   |         | EI     |                 | 0.4                      |       | 0.1            | 0.0                   |       | 6.5%                 |       |
| PCB-156             | 0.35              | 1.4    | 5.57    | B      | <5x*B           | 5.6                      | 2.8   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-157             | 0.369             | 1.476  | 1.57    | --     |                 | 1.6                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-167             | 0.34              | 1.36   | 2.63    | B      | <5x*B           | 2.6                      | 1.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.126             | 0.504  | 0.173   | --     |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-189             | 0.811             | 3.244  |         | E      |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.1   | 0.0       | 0.0   | 0.4          | 0.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 751               | Fine   | Field   | SE A-8 | SE              | Agricultural             |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0214            | 0.0856 | 0.106   | BNJ    | <5x*B           | 0.1                      |       | 0.1      | 0.0                   |       | 1.6%                 |       |
| 2,3,7,8-TCDD        | 0.0257            | 0.1028 | 0.045   | --     |                 | 0.0                      | 0.0   | 1        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| 1,2,3,7,8-PeCDF     | 0.0728            | 0.2912 | 0.091   | --     |                 | 0.1                      | 0.0   | 0.05     | 0.0                   | 0.0   | 0.8%                 | 0.0%  |
| 2,3,4,7,8-PeCDF     | 0.0593            | 0.2372 | 0.113   | --     |                 | 0.1                      | 0.1   | 0.5      | 0.1                   | 0.1   | 8.0%                 | 9.2%  |
| 1,2,3,7,8-PeCDD     | 0.0316            | 0.1264 | 0.187   | --     |                 | 0.2                      | 0.2   | 1        | 0.2                   | 0.2   | 31.8%                | 36.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0547            | 0.2188 | 0.15    | --     |                 | 0.2                      | 0.1   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0489            | 0.1956 | 0.199   | B      | <5x*B           | 0.2                      | 0.1   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 1.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.0645            | 0.258  | 0.182   | B      | <5x*B           | 0.2                      | 0.0   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 0.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0755            | 0.302  | 0.29    | B      | <5x*B           | 0.3                      | 0.1   | 0.1      | 0.0                   | 0.0   | 4.8%                 | 1.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0299            | 0.1196 | 0.175   | --     |                 | 0.2                      | 0.2   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0257            | 0.1028 | 0.213   | --     |                 | 0.2                      | 0.2   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0243            | 0.0972 | 0.165   | --     |                 | 0.2                      | 0.2   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 3.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0306            | 0.1224 | 1.28    | --     |                 | 1.3                      | 1.3   | 0.01     | 0.0                   | 0.0   | 2.1%                 | 2.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0487            | 0.1948 | 0.115   | --     |                 | 0.1                      | 0.1   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0221            | 0.0884 | 4.47    | --     |                 | 4.5                      | 4.5   | 0.01     | 0.0                   | 0.0   | 7.2%                 | 8.3%  |
| OCDF                | 0.0438            | 0.1752 | 3.14    | --     |                 | 3.1                      | 3.1   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.056             | 0.224  | 32.3    | --     |                 | 32.3                     | 32.3  | 0.0001   | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-77              | 0.0525            | 0.21   | 8.37    | B      | <5x*B           | 8.4                      | 4.2   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0627            | 0.2508 | 0.593   | B      | <5x*B           | 0.6                      | 0.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.397             | 1.588  | 39.4    | B      | <5x*B           | 39.4                     | 19.7  | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 0.395             | 1.58   | 2.51    | --     |                 | 2.5                      | 2.5   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.322             | 1.288  | 78.4    | B      | <5x*B           | 78.4                     | 39.2  | 0.0001   | 0.0                   | 0.0   | 1.2%                 | 0.7%  |
| PCB-123             | 0.363             | 1.452  | --      |        |                 | 0.2                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.07              | 0.28   | 1.33    | --     |                 | 1.3                      | 1.3   | 0.1      | 0.1                   | 0.1   | 20.7%                | 24.0% |
| PCB-156             | 15.6              | 62.4   | E       | <5x*B  |                 | 7.8                      |       | 0.0005   | 0.0                   |       | 0.6%                 |       |
| PCB-157             | 0.553             | 2.212  | 3.89    | --     |                 | 3.9                      | 3.9   | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.51              | 2.04   | 9.11    | --     |                 | 9.1                      | 9.1   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.246             | 0.984  | E       |        |                 | 0.1                      |       | 0.01     | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 2.79              | 11.16  | E       |        |                 | 1.4                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.3   | 0.1       | 0.1   | 0.4          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 593       | Fine              | Field  | SE A-9  | SE   | Agricultural    |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0661            | 0.2644 |         | --   |                 | 0.0                      |       | 0.1      | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0398            | 0.1592 |         | --   |                 | 0.0                      |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.334             | 1.336  |         | E    | <5x*B           | 0.2                      |       | 0.05     | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.318             | 1.272  |         | E    | <5x*B           | 0.2                      |       | 0.5      | 0.1                   |       | 5.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.71              | 2.84   |         | E    | <5x*B           | 0.4                      |       | 1        | 0.4                   |       | 20.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.454             | 1.816  |         | E    | <5x*B           | 0.2                      |       | 0.1      | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.78              | 3.12   |         | E    | <5x*B           | 0.4                      |       | 0.1      | 0.0                   |       | 2.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.686             | 2.744  |         | E    | <5x*B           | 0.3                      |       | 0.1      | 0.0                   |       | 1.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.135             | 0.54   | 0.672   | --   |                 | 0.7                      | 0.7   | 0.1      | 0.1                   | 0.1   | 3.5%                 | 5.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.67              | 2.68   |         | E    | <5x*B           | 0.3                      |       | 0.1      | 0.0                   |       | 1.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0844            | 0.3376 | 2.2     | --   |                 | 2.2                      | 2.2   | 0.1      | 0.2                   | 0.2   | 11.1%                | 16.8% |
| 1,2,3,7,8,9-HxCDD   | 0.0856            | 0.3424 | 2.54    | --   |                 | 2.5                      | 2.5   | 0.1      | 0.3                   | 0.3   | 12.7%                | 19.1% |
| 1,2,3,4,6,7,8-HpCDF | 5.45              | 21.8   |         | D    | <5x*B           | 1.4                      |       | 0.01     | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.349             | 1.396  |         | E    | <5x*B           | 0.2                      |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.125             | 0.5    | 28.9    | --   |                 | 28.9                     | 28.9  | 0.01     | 0.3                   | 0.3   | 14.6%                | 22.1% |
| OCDF                | 0.163             | 0.652  | 12.3    | --   |                 | 12.3                     | 12.3  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.162             | 0.648  | 188     | --   |                 | 188.0                    | 188.0 | 0.0001   | 0.0                   | 0.0   | 1.0%                 | 1.4%  |
| PCB-77              | 0.145             | 0.58   | 12      | B    | <5x*B           | 12.0                     | 6.0   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.897             | 3.588  |         | E    | <5x*B           | 0.4                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.2               | 0.8    | 63.6    | B    | <5x*B           | 63.6                     | 31.8  | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.211             | 0.844  | 2.69    | B    | <5x*B           | 2.7                      | 1.3   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.25              | 1      | 145     | B    | <5x*B           | 145.0                    | 72.5  | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-123             | 0.275             | 1.1    | 3.58    | --   |                 | 3.6                      | 3.6   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.423             | 1.692  | 4.32    | --   |                 | 4.3                      | 4.3   | 0.1      | 0.4                   | 0.4   | 21.8%                | 32.8% |
| PCB-156             | 0.229             | 0.916  | 26.2    | B    | <5x*B           | 26.2                     | 13.1  | 0.0005   | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 0.239             | 0.956  | 8.38    | --   |                 | 8.4                      | 8.4   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.228             | 0.912  | 15.1    | --   |                 | 15.1                     | 15.1  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0947            | 0.3788 | 0.691   | --   |                 | 0.7                      | 0.7   | 0.01     | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.197             | 0.788  | 4.08    | --   |                 | 4.1                      | 4.1   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.9   | 0.4       | 0.4   | 1.8          | 1.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 758               | Fine   | Field   | SW A-1 | SW              | Agricultural             |       |                |                       |       |                      |       |       |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0628            | 0.2512 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0448            | 0.1792 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0592            | 0.2368 |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0469            | 0.1876 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0744            | 0.2976 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0801            | 0.3204 |         | I      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0743            | 0.2972 |         | I      | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.496             | 1.984  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 8.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.418             | 1.672  |         | E      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 8.0%                 |       |       |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.315             | 1.26   |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 8.0%                 |       |       |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.323             | 1.292  |         | EI     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 8.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0358            | 0.1432 | 0.173   | IJ     |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 8.0%                 |       | 6.7%  |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 2.15              | 8.6    |         | DI     |                 | 0.5                      |       | 0.01           | 0.0                   |       | 2.0%                 |       |       |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.155             | 0.62   |         | --     |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |       |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.159             | 0.636  | 6.85    | --     |                 | 6.9                      | 6.9   | 0.01           | 0.1                   | 0.1   | 27.5%                |       | 46.2% |       |      |       |      |       |
| OCDF                | 0.2               | 0.8    | 6.23    | --     |                 | 6.2                      | 6.2   | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.4%  |       |      |       |      |       |
| OCDD                | 0.252             | 1.008  | 47.2    | --     |                 | 47.2                     | 47.2  | 0.0001         | 0.0                   | 0.0   | 1.9%                 |       | 3.2%  |       |      |       |      |       |
| PCB-77              | 0.0325            | 0.13   | 2.57    | B      | <5x*B           | 2.6                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |       |
| PCB-81              | 0.036             | 0.144  | 0.411   | B      | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |       |
| PCB-105             | 0.128             | 0.512  | 16.9    | B      | <5x*B           | 16.9                     | 8.5   | 0.0001         | 0.0                   | 0.0   | 0.7%                 |       | 0.6%  |       |      |       |      |       |
| PCB-114             | 0.128             | 0.512  | 1.09    | B      | <5x*B           | 1.1                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |       |
| PCB-118             | 0.103             | 0.412  | 36.9    | B      | <5x*B           | 36.9                     | 18.5  | 0.0001         | 0.0                   | 0.0   | 1.5%                 |       | 1.2%  |       |      |       |      |       |
| PCB-123             | 0.116             | 0.464  | 1.3     | BJ     | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |       |
| PCB-126             | 0.0853            | 0.3412 | 0.63    | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 23.9%                |       | 40.2% |       |      |       |      |       |
| PCB-156             | 0.0948            | 0.3792 | 5.58    | B      | <5x*B           | 5.6                      | 2.8   | 0.0005         | 0.0                   | 0.0   | 1.1%                 |       | 0.9%  |       |      |       |      |       |
| PCB-157             | 0.0999            | 0.3996 | 1.46    | B      | <5x*B           | 1.5                      | 0.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 |       | 0.2%  |       |      |       |      |       |
| PCB-167             | 0.0921            | 0.3684 | 2.62    | B      | <5x*B           | 2.6                      | 1.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |       |
| PCB-169             | 0.217             | 0.868  |         | E      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |       |       |      |       |      |       |
| PCB-189             | 0.217             | 0.868  | 0.604   | --     |                 | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.1       | 0.1   | 0.2          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 734               | Fine   | Field | SW A-2  | SW    | Agricultural    |                          |         |          |       |                       |       |                      |       |       |       |      |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0231            | 0.0924 | 0.279 | NJ      |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.4%  |       |      |       |
| 2,3,7,8-TCDD        | 0.109             | 0.436  |       | E       |       | 0.1             |                          | 1       |          | 0.1   |                       |       |                      |       | 3.6%  |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.342             | 1.368  |       | E       |       | 0.2             |                          | 0.05    |          | 0.0   |                       |       |                      |       | 0.4%  |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0375            | 0.15   | 0.438 | --      |       | 0.4             | 0.4                      | 0.5     |          | 0.2   | 0.2                   |       | 7.2%                 |       | 9.1%  |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.602             | 2.408  |       | E       |       | 0.3             |                          | 1       |          | 0.3   |                       |       |                      |       | 10.8% |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.142             | 0.568  | 0.608 | --      |       | 0.6             | 0.6                      | 0.1     |          | 0.1   | 0.1                   |       | 2.2%                 |       | 2.7%  |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.124             | 0.496  | 0.702 | B       | <5x*B | 0.7             | 0.4                      | 0.1     |          | 0.1   | 0.0                   |       | 2.5%                 |       | 1.8%  |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.157             | 0.628  | 1.7   | --      |       | 1.7             | 1.7                      | 0.1     |          | 0.2   | 0.2                   |       | 6.1%                 |       | 7.7%  |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.203             | 0.812  | 0.414 | B       | <5x*B | 0.4             | 0.1                      | 0.1     |          | 0.0   | 0.0                   |       | 1.4%                 |       | 0.5%  |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0722            | 0.2888 | 0.919 | --      |       | 0.9             | 0.9                      | 0.1     |          | 0.1   | 0.1                   |       | 3.2%                 |       | 4.1%  |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0681            | 0.2724 | 1.91  | --      |       | 1.9             | 1.9                      | 0.1     |          | 0.2   | 0.2                   |       | 6.9%                 |       | 8.6%  |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0726            | 0.2904 | 1.35  | J       |       | 1.4             | 0.7                      | 0.1     |          | 0.1   | 0.1                   |       | 5.1%                 |       | 3.2%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.102             | 0.408  | 11.2  | --      |       | 11.2            | 11.2                     | 0.01    |          | 0.1   | 0.1                   |       | 4.0%                 |       | 5.1%  |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.653             | 2.612  |       | E       |       | 0.3             |                          | 0.01    |          | 0.0   |                       |       | 0.1%                 |       |       |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.131             | 0.524  | 44.8  | --      |       | 44.8            | 44.8                     | 0.01    |          | 0.4   | 0.4                   |       | 16.2%                |       | 20.4% |       |      |       |
| OCDF                | 0.0684            | 0.2736 | 29.9  | --      |       | 29.9            | 29.9                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |      |       |
| OCDD                | 0.078             | 0.312  | 294   | --      |       | 294.0           | 294.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 1.1%                 |       | 1.3%  |       |      |       |
| PCB-77              | 0.0327            | 0.1308 | 24.2  | --      |       | 24.2            | 24.2                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |      |       |
| PCB-81              | 0.0371            | 0.1484 | 1     | B       | <5x*B | 1.0             | 0.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-105             | 0.418             | 1.672  | 109   | B       | <5x*B | 109.0           | 54.5                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.4%                 |       | 0.2%  |       |      |       |
| PCB-114             | 0.416             | 1.664  | 3.07  | B       | <5x*B | 3.1             | 1.5                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.0%  |       |      |       |
| PCB-118             | 0.518             | 2.072  | 238   | B       | <5x*B | 238.0           | 119.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.9%                 |       | 0.5%  |       |      |       |
| PCB-123             | 0.583             | 2.332  | 6.82  | BJ      | <5x*B | 6.8             | 3.4                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-126             | 0.0997            | 0.3988 | 7.19  | --      |       | 7.2             | 7.2                      | 0.1     |          | 0.7   | 0.7                   |       | 26.0%                |       | 32.7% |       |      |       |
| PCB-156             | 0.321             | 1.284  | 45.6  | --      |       | 45.6            | 45.6                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.8%                 |       | 1.0%  |       |      |       |
| PCB-157             | 0.338             | 1.352  | 12.9  | --      |       | 12.9            | 12.9                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.3%  |       |      |       |
| PCB-167             | 0.311             | 1.244  | 27.2  | --      |       | 27.2            | 27.2                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-169             | 0.107             | 0.428  | 0.719 | --      |       | 0.7             | 0.7                      | 0.01    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |       |      |       |
| PCB-189             | 0.672             | 2.688  | 7.19  | --      |       | 7.2             | 7.2                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.4   | 0.7       | 0.7   | 2.6          | 2.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 166               | Fine   | Field   | SW A-3 | SW              | Agricultural             |       |                |                       |       |                      |       |       |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.11              | 0.44   |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0224            | 0.0896 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.12              | 0.48   |         | --     |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |       |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0857            | 0.3428 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.396             | 1.584  |         | E      |                 | 0.2                      |       | 1              | 0.2                   |       | 29.8%                |       |       |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.183             | 0.732  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.166             | 0.664  | 1.04    | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 14.9%                |       | 39.5% |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.218             | 0.872  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.366             | 1.464  |         | --     | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 3.0%                 |       |       |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.106             | 0.424  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.107             | 0.428  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.11              | 0.44   |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |       |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.316             | 1.264  | 3.09    | --     |                 | 3.1                      | 3.1   | 0.01           | 0.0                   | 0.0   | 4.6%                 |       | 12.3% |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.604             | 2.416  |         | --     |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |       |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.283             | 1.132  | 9.21    | --     |                 | 9.2                      | 9.2   | 0.01           | 0.1                   | 0.1   | 13.7%                |       | 36.4% |       |      |       |      |       |
| OCDF                | 0.474             | 1.896  | 6.94    | --     |                 | 6.9                      | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.3%  |       |      |       |      |       |
| OCDD                | 0.764             | 3.056  | 77.5    | --     |                 | 77.5                     | 77.5  | 0.0001         | 0.0                   | 0.0   | 1.2%                 |       | 3.1%  |       |      |       |      |       |
| PCB-77              | 0.0648            | 0.2592 | 10.2    | B      | <5x*B           | 10.2                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |       |
| PCB-81              | 0.0706            | 0.2824 | 0.677   | B      | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |       |
| PCB-105             | 0.605             | 2.42   | 69.7    | B      | <5x*B           | 69.7                     | 34.9  | 0.0001         | 0.0                   | 0.0   | 1.0%                 |       | 1.4%  |       |      |       |      |       |
| PCB-114             | 3.15              | 12.6   |         | E      | <5x*B           | 1.6                      |       | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       |       |       |      |       |      |       |
| PCB-118             | 0.597             | 2.388  | 162     | B      | <5x*B           | 162.0                    | 81.0  | 0.0001         | 0.0                   | 0.0   | 2.4%                 |       | 3.2%  |       |      |       |      |       |
| PCB-123             | 0.671             | 2.684  |         | --     | <5x*B           | 0.3                      |       | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |       |       |      |       |      |       |
| PCB-126             | 2.22              | 8.88   |         | E      |                 | 1.1                      |       | 0.1            | 0.1                   |       | 16.4%                |       |       |       |      |       |      |       |
| PCB-156             | 0.132             | 0.528  | 21.7    | B      | <5x*B           | 21.7                     | 10.9  | 0.0005         | 0.0                   | 0.0   | 1.6%                 |       | 2.2%  |       |      |       |      |       |
| PCB-157             | 0.139             | 0.556  | 6.62    | B      | <5x*B           | 6.6                      | 3.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 |       | 0.7%  |       |      |       |      |       |
| PCB-167             | 0.128             | 0.512  | 7.25    | B      | <5x*B           | 7.3                      | 3.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |       |
| PCB-169             | 0.0634            | 0.2536 | 0.307   | J      |                 | 0.3                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 |       | 0.8%  |       |      |       |      |       |
| PCB-189             | 0.276             | 1.104  | 2.06    | --     |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.1%  |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.1       | 0.0   | 0.5          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 212               | Fine   | Field   | SW A-4 | SW              | Agricultural             |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0845            | 0.338  |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0364            | 0.1456 | 0.227   | --     |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 4.6%                 | 4.7%  |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.055             | 0.22   | 0.602   | --     |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.7%  |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0448            | 0.1792 | 0.781   | --     |                 | 0.8                      | 0.8   | 0.5            | 0.4                   | 0.4   | 9.1%                 | 9.4%  |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0419            | 0.1676 | 1.29    | --     |                 | 1.3                      | 1.3   | 1              | 1.3                   | 1.3   | 29.6%                | 30.7% |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.19              | 0.76   | 1.71    | --     |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 3.9%                 | 4.0%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.168             | 0.672  | 0.947   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.0%                 | 2.1%  |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.215             | 0.86   | 1.8     | --     |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 4.1%                 | 4.2%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.267             | 1.068  | 1.39    | B      | <5x*B           | 1.4                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 1.7%  |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0359            | 0.1436 | 1.5     | --     |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 3.4%                 | 3.5%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0301            | 0.1204 | 3.01    | --     |                 | 3.0                      | 3.0   | 0.1            | 0.3                   | 0.3   | 6.8%                 | 7.1%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0338            | 0.1352 | 1.17    | J      |                 | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.7%                 | 1.4%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.165             | 0.66   | 12.5    | --     |                 | 12.5                     | 12.5  | 0.01           | 0.1                   | 0.1   | 2.8%                 | 2.9%  |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.257             | 1.028  | 1.55    | --     |                 | 1.6                      | 1.6   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0903            | 0.3612 | 62.3    | --     |                 | 62.3                     | 62.3  | 0.01           | 0.6                   | 0.6   | 14.2%                | 14.7% |      |       |      |       |      |       |
| OCDF                | 0.06              | 0.24   | 24      | --     |                 | 24.0                     | 24.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| OCDD                | 0.0549            | 0.2196 | 656     | --     |                 | 656.0                    | 656.0 | 0.0001         | 0.1                   | 0.1   | 1.5%                 | 1.5%  |      |       |      |       |      |       |
| PCB-77              | 0.0766            | 0.3064 | 13.4    | B      | <5x*B           | 13.4                     | 6.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-81              | 0.113             | 0.452  | 1.35    | B      | <5x*B           | 1.4                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-105             | 0.83              | 3.32   | 86.5    | B      | <5x*B           | 86.5                     | 43.3  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |       |
| PCB-114             | 0.825             | 3.3    | 4.04    | B      | <5x*B           | 4.0                      | 2.0   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-118             | 0.809             | 3.236  | 183     | B      | <5x*B           | 183.0                    | 91.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |      |       |      |       |      |       |
| PCB-123             | 0.91              | 3.64   | 4.72    | B      | <5x*B           | 4.7                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-126             | 0.197             | 0.788  | 4.2     | --     |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 9.6%                 | 9.9%  |      |       |      |       |      |       |
| PCB-156             | 0.332             | 1.328  | 35.3    | --     |                 | 35.3                     | 35.3  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |       |
| PCB-157             | 0.35              | 1.4    | 10.8    | --     |                 | 10.8                     | 10.8  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| PCB-167             | 0.322             | 1.288  | 10.9    | B      | <5x*B           | 10.9                     | 5.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-169             | 0.817             | 3.268  |         | E      |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |       |
| PCB-189             | 0.209             | 0.836  | 5.21    | --     |                 | 5.2                      | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.9               | 3.9   | 0.4       | 0.4   | 4.3          | 4.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 792               | Fine   | Field | SW A-5  | SW    | Agricultural    |                          |         |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.00505           | 0.0202 | 0.22  | NJ      |       | 0.1             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 0.8%  |  |  |  |
| 2,3,7,8-TCDD        | 0.0116            | 0.0464 |       | --      |       | 0.0             |                          | 1       | 0.0      |       |                       |       |                      |       | 0.0%  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.195             | 0.78   |       | E       | <5x*B | 0.1             |                          | 0.05    | 0.0      |       |                       |       |                      |       | 0.4%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.4               | 1.6    |       | E       |       | 0.2             |                          | 0.5     | 0.1      |       |                       |       |                      |       | 8.2%  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.00235           | 0.0094 | 0.432 | B       | <5x*B | 0.4             | 0.2                      | 1       | 0.4      | 0.2   | 0.2                   | 32.8% |                      |       | 25.8% |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0271            | 0.1084 | 0.443 | B       | <5x*B | 0.4             | 0.2                      | 0.1     | 0.0      | 0.0   | 0.0                   | 3.3%  |                      |       | 2.6%  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.453             | 1.812  |       | E       |       | 0.2             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 1.6%  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.444             | 1.776  |       | E       |       | 0.2             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 1.6%  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0309            | 0.1236 | 0.286 | --      |       | 0.3             | 0.3                      | 0.1     | 0.0      | 0.0   | 0.0                   | 2.5%  |                      |       | 3.9%  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.566             | 2.264  |       | E       |       | 0.3             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 2.5%  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.018             | 0.072  | 0.683 | --      |       | 0.7             | 0.7                      | 0.1     | 0.1      | 0.1   | 0.1                   | 5.7%  |                      |       | 9.0%  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.614             | 2.456  |       | E       |       | 0.3             |                          | 0.1     | 0.0      |       |                       |       |                      |       | 2.5%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0336            | 0.1344 | 3.95  | --      |       | 4.0             | 4.0                      | 0.01    | 0.0      | 0.0   | 0.0                   | 3.3%  |                      |       | 5.2%  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0521            | 0.2084 | 0.32  | --      |       | 0.3             | 0.3                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.2%  |                      |       | 0.4%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0553            | 0.2212 | 19.5  | --      |       | 19.5            | 19.5                     | 0.01    | 0.2      | 0.2   | 0.2                   | 16.0% |                      |       | 25.2% |  |  |  |
| OCDF                | 0.0371            | 0.1484 | 12    | --      |       | 12.0            | 12.0                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.1%  |                      |       | 0.2%  |  |  |  |
| OCDD                | 0.0358            | 0.1432 | 159   | --      |       | 159.0           | 159.0                    | 0.0001  | 0.0      | 0.0   | 0.0                   | 1.3%  |                      |       | 2.1%  |  |  |  |
| PCB-77              | 0.0169            | 0.0676 | 6.32  | B       | <5x*B | 6.3             | 3.2                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.1%  |                      |       | 0.0%  |  |  |  |
| PCB-81              | 0.481             | 1.924  |       | E       | <5x*B | 0.2             |                          | 0.0001  | 0.0      |       |                       | 0.0%  |                      |       |       |  |  |  |
| PCB-105             | 0.149             | 0.596  | 28.2  | B       | <5x*B | 28.2            | 14.1                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.2%  |                      |       | 0.2%  |  |  |  |
| PCB-114             | 1.36              | 5.44   |       | E       | <5x*B | 0.7             |                          | 0.0005  | 0.0      |       |                       | 0.0%  |                      |       |       |  |  |  |
| PCB-118             | 0.181             | 0.724  | 55.8  | B       | <5x*B | 55.8            | 27.9                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.5%  |                      |       | 0.4%  |  |  |  |
| PCB-123             | 1.73              | 6.92   |       | E       |       | 0.9             |                          | 0.0001  | 0.0      |       |                       | 0.0%  |                      |       |       |  |  |  |
| PCB-126             | 0.0651            | 0.2604 | 1.94  | --      |       | 1.9             | 1.9                      | 0.1     | 0.2      | 0.2   | 0.2                   | 15.6% |                      |       | 24.5% |  |  |  |
| PCB-156             | 0.162             | 0.648  | 10.8  | B       | <5x*B | 10.8            | 5.4                      | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.4%  |                      |       | 0.3%  |  |  |  |
| PCB-157             | 0.169             | 0.676  | 3.89  | --      |       | 3.9             | 3.9                      | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.2%  |                      |       | 0.3%  |  |  |  |
| PCB-167             | 0.162             | 0.648  | 6.72  | B       | <5x*B | 6.7             | 3.4                      | 0.00001 | 0.0      | 0.0   | 0.0                   | 0.0%  |                      |       | 0.0%  |  |  |  |
| PCB-169             | 0.327             | 1.308  |       | E       |       | 0.2             |                          | 0.01    | 0.0      |       |                       | 0.2%  |                      |       |       |  |  |  |
| PCB-189             | 0.188             | 0.752  | 1.85  | --      |       | 1.9             | 1.9                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0%  |                      |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.5   | 0.2       | 0.2   | 1.0          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 395       | Fine              | Field  | SW A-9  | SW   | Agricultural    |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.254             | 1.016  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.8%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0562            | 0.2248 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0559            | 0.2236 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0495            | 0.198  | 0.486   | --   |                 | 0.5                      | 0.5   | 0.5            | 0.3                   | 0.3   | 0.3                  | 20.4% | 41.3% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.636             | 2.544  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       |                      |       | 24.5% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0419            | 0.1676 | 0.399   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.3%  | 3.3%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0352            | 0.1408 | 0.379   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.3%  | 6.6%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.552             | 2.208  |         | D    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.8%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.763             | 3.052  |         | E    | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       |                      |       | 3.3%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.125             | 0.5    | 0.632   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.1                  | 4.9%  | 9.9%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.962             | 3.848  |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      |       | 4.1%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.85              | 3.4    |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       |                      |       | 3.3%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 3.93              | 15.72  |         | D    |                 | 1.0                      |       | 0.01           | 0.0                   |       |                      |       | 0.8%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.531             | 2.124  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0567            | 0.2268 | 17.1    | --   |                 | 17.1                     | 17.1  | 0.01           | 0.2                   | 0.2   | 0.2                  | 14.0% | 28.3% |       |      |       |      |
| OCDF                | 0.137             | 0.548  | 5       | J    |                 | 5.0                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| OCDD                | 0.152             | 0.608  | 161     | --   |                 | 161.0                    | 161.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  | 1.3%  | 2.7%  |       |      |       |      |
| PCB-77              | 0.0585            | 0.234  | 13.9    | B    | <5x*B           | 13.9                     | 7.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1%  |       |      |       |      |
| PCB-81              | 0.0701            | 0.2804 | 1.3     | B    | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.588             | 2.352  | 77.7    | --   |                 | 77.7                     | 77.7  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.6%  | 1.3%  |       |      |       |      |
| PCB-114             | 0.615             | 2.46   | 4.35    | B    | <5x*B           | 4.4                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.2%  |       |      |       |      |
| PCB-118             | 0.609             | 2.436  | 175     | --   |                 | 175.0                    | 175.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  | 1.4%  | 2.9%  |       |      |       |      |
| PCB-123             | 0.693             | 2.772  | 3.73    | --   |                 | 3.7                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.1%  |       |      |       |      |
| PCB-126             | 2.56              | 10.24  |         | E    |                 | 1.3                      |       | 0.1            | 0.1                   |       |                      |       | 10.6% |       |      |       |      |
| PCB-156             | 0.537             | 2.148  | 26.5    | --   |                 | 26.5                     | 26.5  | 0.0005         | 0.0                   | 0.0   | 0.0                  | 1.1%  | 2.2%  |       |      |       |      |
| PCB-157             | 0.555             | 2.22   | 7.3     | --   |                 | 7.3                      | 7.3   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.3%  | 0.6%  |       |      |       |      |
| PCB-167             | 0.546             | 2.184  | 13.8    | J    |                 | 13.8                     | 6.9   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.118             | 0.472  | 0.656   | B    | <5x*B           | 0.7                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.6%  | 0.5%  |       |      |       |      |
| PCB-189             | 0.279             | 1.116  | 2.81    | --   |                 | 2.8                      | 2.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.6   | 0.1       | 0.0   | 1.1          | 0.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 613               | Fine   | Field | NE C-1  | NE    | Commercial      |                          |         |          |       |                       |       |                      |       |       |       |       |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|-------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |       |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full  | Quant |
| 2,3,7,8-TCDF        | 0.25              | 1      |       | E       |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.8%  |       |       |       |
| 2,3,7,8-TCDD        | 0.021             | 0.084  |       | --      |       | 0.0             |                          | 1       |          | 0.0   |                       |       |                      |       | 0.0%  |       |       |       |
| 1,2,3,7,8-PeCDF     | 0.0287            | 0.1148 | 0.2   | --      |       | 0.2             | 0.2                      | 0.05    |          | 0.0   |                       | 0.0   |                      |       | 0.8%  |       | 0.8%  |       |
| 2,3,4,7,8-PeCDF     | 0.0244            | 0.0976 | 0.186 | --      |       | 0.2             | 0.2                      | 0.5     |          | 0.1   |                       | 0.1   |                      |       | 7.6%  |       | 8.2%  |       |
| 1,2,3,7,8-PeCDD     | 0.0343            | 0.1372 | 0.369 | --      |       | 0.4             | 0.4                      | 1       |          | 0.4   |                       | 0.4   |                      |       | 30.3% |       | 32.7% |       |
| 1,2,3,4,7,8-HxCDF   | 0.046             | 0.184  | 0.385 | --      |       | 0.4             | 0.4                      | 0.1     |          | 0.0   |                       | 0.0   |                      |       | 3.0%  |       | 3.3%  |       |
| 1,2,3,6,7,8-HxCDF   | 0.0412            | 0.1648 | 0.256 | --      |       | 0.3             | 0.3                      | 0.1     |          | 0.0   |                       | 0.0   |                      |       | 2.3%  |       | 2.5%  |       |
| 2,3,4,6,7,8-HxCDF   | 0.054             | 0.216  | 0.295 | --      |       | 0.3             | 0.3                      | 0.1     |          | 0.0   |                       | 0.0   |                      |       | 2.3%  |       | 2.5%  |       |
| 1,2,3,7,8,9-HxCDF   | 0.061             | 0.244  | 0.362 | B       | <5x*B | 0.4             | 0.2                      | 0.1     |          | 0.0   |                       | 0.0   |                      |       | 3.0%  |       | 1.6%  |       |
| 1,2,3,4,7,8-HxCDD   | 0.306             | 1.224  |       | E       | <5x*B | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 1.5%  |       |       |       |
| 1,2,3,6,7,8-HxCDD   | 0.0617            | 0.2468 | 0.748 | --      |       | 0.7             | 0.7                      | 0.1     |          | 0.1   |                       | 0.1   |                      |       | 5.3%  |       | 5.7%  |       |
| 1,2,3,7,8,9-HxCDD   | 0.0651            | 0.2604 | 0.595 | J       | <5x*B | 0.6             | 0.3                      | 0.1     |          | 0.1   |                       | 0.0   |                      |       | 4.5%  |       | 2.5%  |       |
| 1,2,3,4,6,7,8-HpCDF | 4.51              | 18.04  |       | D       | <5x*B | 1.1             |                          | 0.01    |          | 0.0   |                       |       |                      |       | 0.8%  |       |       |       |
| 1,2,3,4,7,8,9-HpCDF | 0.453             | 1.812  |       | E       |       | 0.2             |                          | 0.01    |          | 0.0   |                       |       |                      |       | 0.2%  |       |       |       |
| 1,2,3,4,6,7,8-HpCDD | 0.043             | 0.172  | 15.5  | --      |       | 15.5            | 15.5                     | 0.01    |          | 0.2   |                       | 0.2   |                      |       | 11.7% |       | 12.7% |       |
| OCDF                | 0.0646            | 0.2584 | 7.75  | BJ      | <5x*B | 7.8             | 3.9                      | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 0.1%  |       | 0.0%  |       |
| OCDD                | 0.0603            | 0.2412 | 135   | --      |       | 135.0           | 135.0                    | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 1.0%  |       | 1.1%  |       |
| PCB-77              | 0.0571            | 0.2284 | 12.2  | B       | <5x*B | 12.2            | 6.1                      | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 0.1%  |       | 0.0%  |       |
| PCB-81              | 0.0599            | 0.2396 | 0.862 | B       | <5x*B | 0.9             | 0.4                      | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-105             | 3.73              | 14.92  | 126   | --      |       | 126.0           | 126.0                    | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 1.0%  |       | 1.0%  |       |
| PCB-114             | 3.89              | 15.56  | 5.48  | J       |       | 5.5             | 1.4                      | 0.0005  |          | 0.0   |                       | 0.0   |                      |       | 0.2%  |       | 0.1%  |       |
| PCB-118             | 4.89              | 19.56  | 286   | --      |       | 286.0           | 286.0                    | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 2.2%  |       | 2.3%  |       |
| PCB-123             | 5.56              | 22.24  | 7.67  | --      |       | 7.7             | 3.8                      | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 0.1%  |       | 0.0%  |       |
| PCB-126             | 0.248             | 0.992  | 2.38  | --      |       | 2.4             | 2.4                      | 0.1     |          | 0.2   |                       | 0.2   |                      |       | 18.2% |       | 19.6% |       |
| PCB-156             | 0.637             | 2.548  | 61.2  | --      |       | 61.2            | 61.2                     | 0.0005  |          | 0.0   |                       | 0.0   |                      |       | 2.3%  |       | 2.5%  |       |
| PCB-157             | 0.659             | 2.636  | 13.5  | --      |       | 13.5            | 13.5                     | 0.0005  |          | 0.0   |                       | 0.0   |                      |       | 0.5%  |       | 0.6%  |       |
| PCB-167             | 0.648             | 2.592  | 34    | J       |       | 34.0            | 17.0                     | 0.00001 |          | 0.0   |                       | 0.0   |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-169             | 0.224             | 0.896  | 0.36  | --      |       | 0.4             | 0.2                      | 0.01    |          | 0.0   |                       | 0.0   |                      |       | 0.3%  |       | 0.2%  |       |
| PCB-189             | 0.55              | 2.2    | 9.32  | --      |       | 9.3             | 9.3                      | 0.0001  |          | 0.0   |                       | 0.0   |                      |       | 0.1%  |       | 0.1%  |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.9               | 0.8   | 0.2       | 0.2   | 1.1          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 193               | Fine   | Field   | NE C-2 | NE              | Commercial               |        |          |      |                       |      |                      |       |       |  |  |  |  |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|------|-----------------------|------|----------------------|-------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |       |       |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  | Human    | Full | Quant                 | Full | Quant                | Full  | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 6.47              | 25.88  |         | E      |                 | 3.2                      |        | 0.1      | 0.3  |                       |      | 6.0%                 |       |       |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0286            | 0.1144 |         | --     |                 | 0.0                      |        | 1        | 0.0  |                       |      | 0.0%                 |       |       |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0482            | 0.1928 | 2.85    | --     |                 | 2.9                      | 2.9    | 0.05     | 0.1  | 0.1                   | 0.1  | 2.7%                 | 3.2%  |       |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0409            | 0.1636 | 2.55    | --     |                 | 2.6                      | 2.6    | 0.5      | 1.3  | 1.3                   | 1.3  | 24.5%                | 28.9% |       |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0513            | 0.2052 | 0.643   | B      | <5x*B           | 0.6                      | 0.3    | 1        | 0.6  | 0.3                   | 0.3  | 11.3%                | 6.7%  |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.127             | 0.508  | 2.7     | --     |                 | 2.7                      | 2.7    | 0.1      | 0.3  | 0.3                   | 0.3  | 5.1%                 | 6.0%  |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.109             | 0.436  | 1.37    | --     |                 | 1.4                      | 1.4    | 0.1      | 0.1  | 0.1                   | 0.1  | 2.6%                 | 3.1%  |       |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.128             | 0.512  | 1.4     | --     |                 | 1.4                      | 1.4    | 0.1      | 0.1  | 0.1                   | 0.1  | 2.6%                 | 3.1%  |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.141             | 0.564  | 0.7     | --     |                 | 0.7                      | 0.7    | 0.1      | 0.1  | 0.1                   | 0.1  | 1.3%                 | 1.6%  |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.159             | 0.636  | 0.711   | B      | <5x*B           | 0.7                      | 0.4    | 0.1      | 0.1  | 0.0                   | 0.0  | 1.3%                 | 0.9%  |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.155             | 0.62   | 1.92    | --     |                 | 1.9                      | 1.9    | 0.1      | 0.2  | 0.2                   | 0.2  | 3.6%                 | 4.2%  |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.159             | 0.636  | 1.5     | --     |                 | 1.5                      | 1.5    | 0.1      | 0.2  | 0.2                   | 0.2  | 2.8%                 | 3.3%  |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0273            | 0.1092 | 11.3    | --     |                 | 11.3                     | 11.3   | 0.01     | 0.1  | 0.1                   | 0.1  | 2.1%                 | 2.5%  |       |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0402            | 0.1608 | 1.43    | --     |                 | 1.4                      | 1.4    | 0.01     | 0.0  | 0.0                   | 0.0  | 0.3%                 | 0.3%  |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0621            | 0.2484 | 36.9    | --     |                 | 36.9                     | 36.9   | 0.01     | 0.4  | 0.4                   | 0.4  | 6.9%                 | 8.2%  |       |  |  |  |  |
| OCDF                | 0.0368            | 0.1472 | 19.5    | --     |                 | 19.5                     | 19.5   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |
| OCDD                | 0.0762            | 0.3048 | 289     | --     |                 | 289.0                    | 289.0  | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.5%                 | 0.6%  |       |  |  |  |  |
| PCB-77              | 0.0731            | 0.2924 | 33.3    | --     |                 | 33.3                     | 33.3   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.1%  |       |  |  |  |  |
| PCB-81              | 0.0842            | 0.3368 | 1.77    | B      | <5x*B           | 1.8                      | 0.9    | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |
| PCB-105             | 6.28              | 25.12  | 998     | CJ     |                 | 998.0                    | 499.0  | 0.0001   | 0.1  | 0.0                   | 0.0  | 1.9%                 | 1.1%  |       |  |  |  |  |
| PCB-114             | 6.56              | 26.24  | 56.5    | --     |                 | 56.5                     | 56.5   | 0.0005   | 0.0  | 0.0                   | 0.0  | 0.5%                 | 0.6%  |       |  |  |  |  |
| PCB-118             | 6.6               | 26.4   | 2330    | CJ     |                 | 2330.0                   | 1165.0 | 0.0001   | 0.2  | 0.1                   | 0.1  | 4.4%                 | 2.6%  |       |  |  |  |  |
| PCB-123             | 7.51              | 30.04  | 47.9    | --     |                 | 47.9                     | 47.9   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.1%  |       |  |  |  |  |
| PCB-126             | 0.92              | 3.68   | 7.6     | --     |                 | 7.6                      | 7.6    | 0.1      | 0.8  | 0.8                   | 0.8  | 14.3%                | 16.9% |       |  |  |  |  |
| PCB-156             | 0.762             | 3.048  | 393     | --     |                 | 393.0                    | 393.0  | 0.0005   | 0.2  | 0.2                   | 0.2  | 3.7%                 | 4.4%  |       |  |  |  |  |
| PCB-157             | 0.788             | 3.152  | 86.5    | --     |                 | 86.5                     | 86.5   | 0.0005   | 0.0  | 0.0                   | 0.0  | 0.8%                 | 1.0%  |       |  |  |  |  |
| PCB-167             | 0.775             | 3.1    | 171     | --     |                 | 171.0                    | 171.0  | 0.00001  | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |
| PCB-169             | 0.118             | 0.472  | 1.41    | --     |                 | 1.4                      | 1.4    | 0.01     | 0.0  | 0.0                   | 0.0  | 0.3%                 | 0.3%  |       |  |  |  |  |
| PCB-189             | 0.452             | 1.808  | 50.2    | --     |                 | 50.2                     | 50.2   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.1%  |       |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.9               | 3.2   | 1.3       | 1.1   | 5.2          | 4.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 384       | Fine              | Field  | NE C-3  | NE   | Commercial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.102             | 0.408  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.3%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.052             | 0.208  |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0786            | 0.3144 | 0.149   | B    | <5x*B           | 0.1                      | 0.0   | 0.05           | 0.0                   | 0.0   |                      | 0.6%  | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0659            | 0.2636 | 0.173   | B    | <5x*B           | 0.2                      | 0.0   | 0.5            | 0.1                   | 0.0   |                      | 12.6% | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0638            | 0.2552 | 0.224   | B    | <5x*B           | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   |                      | 25.1% | 24.9% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0328            | 0.1312 | 0.156   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 2.5%  | 2.5%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0281            | 0.1124 | 0.297   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 3.8%  | 2.5%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0346            | 0.1384 | 0.238   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 2.5%  | 2.5%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.037             | 0.148  | 0.278   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 3.8%  | 2.5%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0599            | 0.2396 | 0.248   | J    |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 2.5%  | 2.5%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0481            | 0.1924 | 0.334   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   |                      | 3.8%  | 7.5%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.235             | 0.94   |         | EJ   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.3%  |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0648            | 0.2592 | 1.98    | --   |                 | 2.0                      | 2.0   | 0.01           | 0.0                   | 0.0   |                      | 2.5%  | 5.0%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.102             | 0.408  | 0.188   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   |                      | 0.3%  | 0.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0515            | 0.206  | 8.99    | --   |                 | 9.0                      | 9.0   | 0.01           | 0.1                   | 0.1   |                      | 11.3% | 22.5% |       |      |       |      |
| OCDF                | 0.102             | 0.408  | 5.67    | --   |                 | 5.7                      | 5.7   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  | 0.1%  |       |      |       |      |
| OCDD                | 0.0761            | 0.3044 | 77.8    | --   |                 | 77.8                     | 77.8  | 0.0001         | 0.0                   | 0.0   |                      | 1.0%  | 1.9%  |       |      |       |      |
| PCB-77              | 0.0594            | 0.2376 | 8.67    | B    | <5x*B           | 8.7                      | 4.3   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  | 0.1%  |       |      |       |      |
| PCB-81              | 0.0734            | 0.2936 | 0.671   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.819             | 3.276  | 38.4    | B    | <5x*B           | 38.4                     | 19.2  | 0.0001         | 0.0                   | 0.0   |                      | 0.5%  | 0.5%  |       |      |       |      |
| PCB-114             | 0.856             | 3.424  | 1.92    | --   |                 | 1.9                      | 1.0   | 0.0005         | 0.0                   | 0.0   |                      | 0.1%  | 0.1%  |       |      |       |      |
| PCB-118             | 0.898             | 3.592  | 83.7    | B    | <5x*B           | 83.7                     | 41.9  | 0.0001         | 0.0                   | 0.0   |                      | 1.1%  | 1.0%  |       |      |       |      |
| PCB-123             | 1.02              | 4.08   | 1.86    | --   |                 | 1.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-126             | 0.0948            | 0.3792 | 1.67    | B    | <5x*B           | 1.7                      | 0.8   | 0.1            | 0.2                   | 0.1   |                      | 21.4% | 20.0% |       |      |       |      |
| PCB-156             | 0.207             | 0.828  | 19      | --   |                 | 19.0                     | 19.0  | 0.0005         | 0.0                   | 0.0   |                      | 1.2%  | 2.4%  |       |      |       |      |
| PCB-157             | 0.214             | 0.856  | 4.74    | --   |                 | 4.7                      | 4.7   | 0.0005         | 0.0                   | 0.0   |                      | 0.3%  | 0.6%  |       |      |       |      |
| PCB-167             | 0.21              | 0.84   | 9.08    | --   |                 | 9.1                      | 9.1   | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.0965            | 0.386  | 0.352   | --   |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   |                      | 0.5%  | 0.5%  |       |      |       |      |
| PCB-189             | 0.239             | 0.956  | 4.17    | --   |                 | 4.2                      | 4.2   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  | 0.1%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.2       | 0.1   | 0.6          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 167               | Fine  | Field   | NE C-4 | NE              | Commercial               | Incomplete analysis for PCBs |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|------------------------------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |                              | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant                        |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.196             | 0.784 | 7.8     | NJ     |                 | 3.9                      |                              | 0.1      | 0.4                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.179             | 0.716 | 5.69    | --     |                 | 5.7                      | 5.7                          | 1        | 5.7                   | 5.7   | 5.9%                 | 6.3%  |
| 1,2,3,7,8-PeCDF     | 10.8              | 43.2  | 13.5    | --     |                 | 13.5                     | 6.8                          | 0.05     | 0.7                   | 0.3   | 0.7%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.337             | 1.348 | 15.1    | --     |                 | 15.1                     | 15.1                         | 0.5      | 7.6                   | 7.6   | 7.8%                 | 8.4%  |
| 1,2,3,7,8-PeCDD     | 0.656             | 2.624 | 8.79    | --     |                 | 8.8                      | 8.8                          | 1        | 8.8                   | 8.8   | 9.0%                 | 9.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.911             | 3.644 | 52.1    | --     |                 | 52.1                     | 52.1                         | 0.1      | 5.2                   | 5.2   | 5.4%                 | 5.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.783             | 3.132 | 19.6    | --     |                 | 19.6                     | 19.6                         | 0.1      | 2.0                   | 2.0   | 2.0%                 | 2.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.927             | 3.708 | 14.9    | --     |                 | 14.9                     | 14.9                         | 0.1      | 1.5                   | 1.5   | 1.5%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 1.09              | 4.36  | 3.77    | --     |                 | 3.8                      | 1.9                          | 0.1      | 0.4                   | 0.2   | 0.4%                 | 0.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.891             | 3.564 | 15.1    | --     |                 | 15.1                     | 15.1                         | 0.1      | 1.5                   | 1.5   | 1.6%                 | 1.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.882             | 3.528 | 43.6    | --     |                 | 43.6                     | 43.6                         | 0.1      | 4.4                   | 4.4   | 4.5%                 | 4.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.894             | 3.576 | 24      | --     |                 | 24.0                     | 24.0                         | 0.1      | 2.4                   | 2.4   | 2.5%                 | 2.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.885             | 3.54  | 369     | --     |                 | 369.0                    | 369.0                        | 0.01     | 3.7                   | 3.7   | 3.8%                 | 4.1%  |
| 1,2,3,4,7,8,9-HpCDF | 1.23              | 4.92  | 20.7    | --     |                 | 20.7                     | 20.7                         | 0.01     | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.197             | 0.788 | 1270    | CJ     |                 | 1270.0                   | 635.0                        | 0.01     | 12.7                  | 6.4   | 13.0%                | 7.1%  |
| OCDF                | 0.201             | 0.804 | 502     | --     |                 | 502.0                    | 502.0                        | 0.0001   | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| OCDD                | 0.0865            | 0.346 | 4210    | SJ     |                 | 4210.0                   | 2105.0                       | 0.0001   | 0.4                   | 0.2   | 0.4%                 | 0.2%  |
| PCB-77              | 0.165             | 0.66  | 1090    | CJ     |                 | 1090.0                   | 545.0                        | 0.0001   | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-81              | 0.233             | 0.932 | 21.7    | --     |                 | 21.7                     | 21.7                         | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             |                   |       |         | --     | <5x*B           |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-114             |                   |       |         | --     | <5x*B           |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-118             |                   |       |         | --     | <5x*B           |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-123             |                   |       |         | --     |                 |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-126             | 7.87              | 31.48 | 395     | --     |                 | 395.0                    | 395.0                        | 0.1      | 39.5                  | 39.5  | 40.6%                | 44.0% |
| PCB-156             |                   |       |         | --     |                 |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-157             |                   |       |         | --     |                 |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-167             |                   |       |         | --     | <5x*B           |                          |                              | 0.00001  |                       |       |                      |       |
| PCB-169             | 1.31              | 5.24  | 22.4    | --     |                 | 22.4                     | 22.4                         | 0.01     | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| PCB-189             |                   |       |         | --     |                 |                          |                              | 0.0001   |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 57.7              | 50.2  | 39.8      | 39.8  | 97.5         | 90.0  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 878       | Fine              | Field  | NE C-5  | NE   | Commercial      | Changed from NW I-3 (Industrial) to SE C-5 (Commercial) based on field notes; erroneously identified in DRAFT report. |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|---|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*  |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full  | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0716            | 0.2864 |         | --   |                 | 0.0   |       | 0.1      | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.135             | 0.54   |         | E    |                 | 0.1   |       | 1        | 0.1                   |       | 6.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.111             | 0.444  |         | E    | <5x*B           | 0.1   |       | 0.05     | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.032             | 0.128  | 0.248   | --   |                 | 0.2   | 0.2   | 0.5      | 0.1                   | 0.1   | 6.9%                 | 9.1%  |
| 1,2,3,7,8-PeCDD     | 0.0123            | 0.0492 | 0.39    | B    | <5x*B           | 0.4   | 0.2   | 1        | 0.4                   | 0.2   | 27.6%                | 18.1% |
| 1,2,3,4,7,8-HxCDF   | 0.271             | 1.084  |         | E    | <5x*B           | 0.1   |       | 0.1      | 0.0                   |       | 0.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0657            | 0.2628 | 0.374   | --   |                 | 0.4   | 0.4   | 0.1      | 0.0                   | 0.0   | 2.8%                 | 3.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.0825            | 0.33   | 0.345   | --   |                 | 0.3   | 0.3   | 0.1      | 0.0                   | 0.0   | 2.1%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0804            | 0.3216 | 0.344   | --   |                 | 0.3   | 0.3   | 0.1      | 0.0                   | 0.0   | 2.1%                 | 2.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.293             | 1.172  |         | E    |                 | 0.1   |       | 0.1      | 0.0                   |       | 0.7%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0631            | 0.2524 | 0.784   | --   |                 | 0.8   | 0.8   | 0.1      | 0.1                   | 0.1   | 5.5%                 | 7.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0627            | 0.2508 | 0.888   | --   |                 | 0.9   | 0.9   | 0.1      | 0.1                   | 0.1   | 6.2%                 | 8.2%  |
| 1,2,3,4,6,7,8-HpCDF | 3.12              | 12.48  |         | D    | <5x*B           | 0.8   |       | 0.01     | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.297             | 1.188  |         | E    |                 | 0.1   |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0623            | 0.2492 | 16.4    | --   |                 | 16.4  | 16.4  | 0.01     | 0.2                   | 0.2   | 11.3%                | 14.9% |
| OCDF                | 0.142             | 0.568  | 8.47    | --   |                 | 8.5   | 8.5   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.152             | 0.608  | 175     | --   |                 | 175.0   | 175.0 | 0.0001   | 0.0                   | 0.0   | 1.2%                 | 1.6%  |
| PCB-77              | 0.0305            | 0.122  | 13      | B    | <5x*B           | 13.0  | 6.5   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0355            | 0.142  | 0.742   | B    | <5x*B           | 0.7   | 0.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.501             | 2.004  | 40      | B    | <5x*B           | 40.0  | 20.0  | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.528             | 2.112  | 1.81    | B    | <5x*B           | 1.8   | 0.5   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.649             | 2.596  | 87      | B    | <5x*B           | 87.0  | 43.5  | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-123             | 1.98              | 7.92   |         | E    |                 | 1.0   |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.198             | 0.792  | 3.28    | --   |                 | 3.3   | 3.3   | 0.1      | 0.3                   | 0.3   | 22.8%                | 29.9% |
| PCB-156             | 0.79              | 3.16   | 18.5    | B    | <5x*B           | 18.5  | 9.3   | 0.0005   | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-157             | 0.825             | 3.3    | 5.09    | --   |                 | 5.1   | 5.1   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.789             | 3.156  | 11.9    | --   |                 | 11.9  | 11.9  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0534            | 0.2136 | 0.518   | --   |                 | 0.5   | 0.5   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-189             | 0.24              | 0.96   | 4.04    | --   |                 | 4.0   | 4.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.7   | 0.3       | 0.3   | 1.3          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 343       | Fine              | Field  | NE C-7  | NE   | Commercial      |                          |        |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0242            | 0.0968 | 0.712   | NJ   |                 | 0.4                      |        | 0.1            | 0.0                   |       | 0.4%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0194            | 0.0776 | 0.186   | --   |                 | 0.2                      | 0.2    | 1              | 0.2                   | 0.2   | 2.2%                 | 2.2%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.088             | 0.352  | 0.874   | --   |                 | 0.9                      | 0.9    | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.5%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0815            | 0.326  | 2.58    | --   |                 | 2.6                      | 2.6    | 0.5            | 1.3                   | 1.3   | 14.1%                | 14.5% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.062             | 0.248  | 1.66    | --   |                 | 1.7                      | 1.7    | 1              | 1.7                   | 1.7   | 18.4%                | 19.0% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0269            | 0.1076 | 2.09    | --   |                 | 2.1                      | 2.1    | 0.1            | 0.2                   | 0.2   | 2.3%                 | 2.3%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 3.27              | 13.08  |         | D    |                 | 0.8                      |        | 0.1            |                       |       | 0.9%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0595            | 0.238  | 3.11    | --   |                 | 3.1                      | 3.1    | 0.1            | 0.3                   | 0.3   | 3.4%                 | 3.5%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0345            | 0.138  | 0.799   | B    | <5x*B           | 0.8                      | 0.4    | 0.1            | 0.1                   | 0.0   | 0.9%                 | 0.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0463            | 0.1852 | 2.71    | --   |                 | 2.7                      | 2.7    | 0.1            | 0.3                   | 0.3   | 2.9%                 | 3.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0376            | 0.1504 | 6.6     | --   |                 | 6.6                      | 6.6    | 0.1            | 0.7                   | 0.7   | 7.1%                 | 7.4%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0452            | 0.1808 | 6.53    | --   |                 | 6.5                      | 6.5    | 0.1            | 0.7                   | 0.7   | 7.0%                 | 7.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0498            | 0.1992 | 20.4    | J    |                 | 20.4                     | 10.2   | 0.01           | 0.2                   | 0.1   | 2.2%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0993            | 0.3972 | 1.32    | --   |                 | 1.3                      | 1.3    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0718            | 0.2872 | 164     | --   |                 | 164.0                    | 164.0  | 0.01           | 1.6                   | 1.6   | 17.8%                | 18.3% |      |       |      |       |      |
| OCDF                | 0.139             | 0.556  | 30.7    | J    |                 | 30.7                     | 15.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.183             | 0.732  | 1110    | --   |                 | 1110.0                   | 1110.0 | 0.0001         | 0.1                   | 0.1   | 1.2%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 6.07              | 24.28  | 52.4    | --   |                 | 52.4                     | 52.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 6.71              | 26.84  |         | I    |                 | 3.4                      |        | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-105             | 2.86              | 11.44  | 337     | --   |                 | 337.0                    | 337.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-114             | 10.1              | 40.4   |         | E    | <5x*B           | 5.1                      |        | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-118             | 2.25              | 9      | 546     | --   |                 | 546.0                    | 546.0  | 0.0001         | 0.1                   | 0.1   | 0.6%                 | 0.6%  |      |       |      |       |      |
| PCB-123             | 2.53              | 10.12  |         | --   |                 | 1.3                      |        | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.387             | 1.548  | 15.2    | --   |                 | 15.2                     | 15.2   | 0.1            | 1.5                   | 1.5   | 16.5%                | 16.9% |      |       |      |       |      |
| PCB-156             | 1.06              | 4.24   | 131     | --   |                 | 131.0                    | 131.0  | 0.0005         | 0.1                   | 0.1   | 0.7%                 | 0.7%  |      |       |      |       |      |
| PCB-157             | 1.11              | 4.44   | 36.2    | --   |                 | 36.2                     | 36.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 1.03              | 4.12   | 72.9    | J    |                 | 72.9                     | 36.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0435            | 0.174  | 1.7     | --   |                 | 1.7                      | 1.7    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-189             | 2.37              | 9.48   | 22.2    | --   |                 | 22.2                     | 22.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.5               | 7.2   | 1.7       | 1.7   | 9.2          | 8.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 141               | Fine   | Field   | NW C-1 | NW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.582             | 2.328  |         | E      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0523            | 0.2092 | 0.7     | --     |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   | 15.3%                | 25.3% |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.102             | 0.408  | 0.55    | --     |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 1.1%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0748            | 0.2992 | 0.741   | --     |                 | 0.7                      | 0.7   | 0.5            | 0.4                   | 0.4   | 7.7%                 | 12.7% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 1.06              | 4.24   |         | E      |                 | 0.5                      |       | 1              | 0.5                   |       | 11.0%                |       |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0696            | 0.2784 | 1.07    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 4.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0609            | 0.2436 | 0.829   | B      | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.8%                 | 1.4%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0743            | 0.2972 | 1.5     | --     |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 3.3%                 | 5.4%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.104             | 0.416  | 0.489   | B      | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.7%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0178            | 0.0712 | 1.11    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 4.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0143            | 0.0572 | 2.04    | --     |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 4.4%                 | 7.2%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0163            | 0.0652 | 1.34    | J      |                 | 1.3                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 2.5%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0999            | 0.3996 | 13.7    | --     |                 | 13.7                     | 13.7  | 0.01           | 0.1                   | 0.1   | 3.0%                 | 5.0%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.171             | 0.684  | 0.863   | --     |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0854            | 0.3416 | 50.8    | --     |                 | 50.8                     | 50.8  | 0.01           | 0.5                   | 0.5   | 11.1%                | 18.4% |      |       |      |       |      |
| OCDF                | 0.0791            | 0.3164 | 29.4    | --     |                 | 29.4                     | 29.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.0887            | 0.3548 | 458     | --     |                 | 458.0                    | 458.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.7%  |      |       |      |       |      |
| PCB-77              | 0.0518            | 0.2072 | 88.5    | --     |                 | 88.5                     | 88.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-81              | 0.063             | 0.252  | 3.59    | B      | <5x*B           | 3.6                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 2.2               | 8.8    | 609     | CJ     |                 | 609.0                    | 304.5 | 0.0001         | 0.1                   | 0.0   | 1.3%                 | 1.1%  |      |       |      |       |      |
| PCB-114             | 2.18              | 8.72   | 22.5    | --     |                 | 22.5                     | 22.5  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |      |       |      |       |      |
| PCB-118             | 2.2               | 8.8    | 1250    | CJ     |                 | 1250.0                   | 625.0 | 0.0001         | 0.1                   | 0.1   | 2.7%                 | 2.3%  |      |       |      |       |      |
| PCB-123             | 2.47              | 9.88   | 32.8    | --     |                 | 32.8                     | 32.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-126             | 20.8              | 83.2   |         | E      |                 | 10.4                     |       | 0.1            | 1.0                   |       | 22.8%                |       |      |       |      |       |      |
| PCB-156             | 0.625             | 2.5    | 252     | --     |                 | 252.0                    | 252.0 | 0.0005         | 0.1                   | 0.1   | 2.8%                 | 4.6%  |      |       |      |       |      |
| PCB-157             | 0.659             | 2.636  | 59.4    | --     |                 | 59.4                     | 59.4  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |      |       |      |       |      |
| PCB-167             | 0.607             | 2.428  | 121     | --     |                 | 121.0                    | 121.0 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.229             | 0.916  | 1.4     | J      |                 | 1.4                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-189             | 0.157             | 0.628  | 27.3    | --     |                 | 27.3                     | 27.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.1               | 2.4   | 1.3       | 0.2   | 4.4          | 2.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 960               | Fine   | Field   | NW C-2 | NW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0452            | 0.1808 | 0.202   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0489            | 0.1956 | 0.191   | --     |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 6.8%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.106             | 0.424  | 0.189   | --     |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.088             | 0.352  | 0.416   | --     |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 6.8%                 | 8.1%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0435            | 0.174  | 0.95    | --     |                 | 1.0                      | 1.0   | 1              | 1.0                   | 1.0   | 33.9%                | 40.7% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.087             | 0.348  | 0.374   | B      | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.4%                 | 0.8%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.662             | 2.648  |         | D      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0974            | 0.3896 | 0.525   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.7%                 | 2.0%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.105             | 0.42   | 0.334   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.0%                 | 0.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.103             | 0.412  | 0.86    | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.0%                 | 3.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0858            | 0.3432 | 1.44    | --     |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 4.7%                 | 5.7%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.083             | 0.332  | 1.78    | --     |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 6.1%                 | 7.3%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.124             | 0.496  | 5.42    | J      |                 | 5.4                      | 2.7   | 0.01           | 0.1                   | 0.0   | 1.8%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.171             | 0.684  | 0.326   | --     |                 | 0.3                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0706            | 0.2824 | 27      | --     |                 | 27.0                     | 27.0  | 0.01           | 0.3                   | 0.3   | 9.1%                 | 11.0% |      |       |      |       |      |
| OCDF                | 0.137             | 0.548  | 12.2    | I      |                 | 12.2                     | 12.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.0819            | 0.3276 | 290     | I      |                 | 290.0                    | 290.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 0.115             | 0.46   | 21.4    | --     |                 | 21.4                     | 21.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.969             | 3.876  |         | E      |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-105             | 1.24              | 4.96   | 96.9    | --     |                 | 96.9                     | 96.9  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |       |      |
| PCB-114             | 1.23              | 4.92   | 5.54    | B      | <5x*B           | 5.5                      | 2.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.95              | 3.8    | 230     | B      | <5x*B           | 230.0                    | 115.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.5%  |      |       |      |       |      |
| PCB-123             | 1.07              | 4.28   |         | --     |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.219             | 0.876  | 5.56    | J      |                 | 5.6                      | 2.8   | 0.1            | 0.6                   | 0.3   | 19.0%                | 11.4% |      |       |      |       |      |
| PCB-156             | 0.661             | 2.644  | 37.7    | --     |                 | 37.7                     | 37.7  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |      |       |      |       |      |
| PCB-157             | 11.1              | 44.4   |         | E      | <5x*B           | 5.6                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| PCB-167             | 0.642             | 2.568  | 22.2    | J      |                 | 22.2                     | 11.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.102             | 0.408  | 0.588   | --     |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-189             | 1.24              | 4.96   | 6.32    | --     |                 | 6.3                      | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.3               | 2.1   | 0.6       | 0.3   | 2.9          | 2.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 180               | Fine   | Field | NW C-3  | NW    | Commercial      |                          |         |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.978             | 3.912  |       | --      |       | 0.5             |                          | 0.1     |          | 0.1   |                       |       |                      | 0.6%  |       |  |  |  |
| 2,3,7,8-TCDD        | 0.0874            | 0.3496 | 5.69  | --      |       | 5.7             | 5.7                      | 1       |          | 5.7   | 5.7                   |       | 68.2%                |       | 75.2% |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.626             | 2.504  | 0.685 | B       | <5x*B | 0.7             | 0.2                      | 0.05    |          | 0.0   | 0.0                   |       | 0.4%                 |       | 0.1%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.473             | 1.892  | 0.738 | --      |       | 0.7             | 0.4                      | 0.5     |          | 0.4   | 0.2                   |       | 4.2%                 |       | 2.6%  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.754             | 3.016  |       | E       | <5x*B | 0.4             |                          | 1       |          | 0.4   |                       |       | 4.8%                 |       |       |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.147             | 0.588  | 0.776 | B       | <5x*B | 0.8             | 0.4                      | 0.1     |          | 0.1   | 0.0                   |       | 1.0%                 |       | 0.5%  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.949             | 3.796  |       | E       |       | 0.5             |                          | 0.1     |          | 0.1   |                       |       | 0.6%                 |       |       |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.152             | 0.608  | 0.776 | --      |       | 0.8             | 0.8                      | 0.1     |          | 0.1   | 0.1                   |       | 1.0%                 |       | 1.1%  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.624             | 2.496  |       | E       |       | 0.3             |                          | 0.1     |          | 0.0   |                       |       | 0.4%                 |       |       |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.858             | 3.432  |       | E       |       | 0.4             |                          | 0.1     |          | 0.0   |                       |       | 0.5%                 |       |       |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.059             | 0.236  | 2.06  | --      |       | 2.1             | 2.1                      | 0.1     |          | 0.2   | 0.2                   |       | 2.5%                 |       | 2.8%  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0595            | 0.238  | 1.19  | --      |       | 1.2             | 1.2                      | 0.1     |          | 0.1   | 0.1                   |       | 1.4%                 |       | 1.6%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0728            | 0.2912 | 10.5  | --      |       | 10.5            | 10.5                     | 0.01    |          | 0.1   | 0.1                   |       | 1.3%                 |       | 1.4%  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.119             | 0.476  | 0.756 | --      |       | 0.8             | 0.8                      | 0.01    |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0938            | 0.3752 | 52.1  | --      |       | 52.1            | 52.1                     | 0.01    |          | 0.5   | 0.5                   |       | 6.2%                 |       | 6.9%  |  |  |  |
| OCDF                | 0.114             | 0.456  | 28.8  | --      |       | 28.8            | 28.8                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| OCDD                | 0.093             | 0.372  | 403   | --      |       | 403.0           | 403.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.5%                 |       | 0.5%  |  |  |  |
| PCB-77              | 0.0559            | 0.2236 | 15.2  | B       | <5x*B | 15.2            | 7.6                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-81              | 0.0669            | 0.2676 | 0.936 | B       | <5x*B | 0.9             | 0.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-105             | 0.398             | 1.592  | 127   | --      |       | 127.0           | 127.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |  |  |  |
| PCB-114             | 0.419             | 1.676  | 4.85  | B       | <5x*B | 4.9             | 2.4                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-118             | 0.64              | 2.56   | 257   | --      |       | 257.0           | 257.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| PCB-123             | 0.705             | 2.82   | 7.42  | --      |       | 7.4             | 7.4                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-126             | 0.182             | 0.728  | 4.6   | --      |       | 4.6             | 4.6                      | 0.1     |          | 0.5   | 0.5                   |       | 5.5%                 |       | 6.1%  |  |  |  |
| PCB-156             | 0.434             | 1.736  | 44.2  | --      |       | 44.2            | 44.2                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| PCB-157             | 0.453             | 1.812  | 14    | --      |       | 14.0            | 14.0                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-167             | 0.433             | 1.732  | 26.4  | --      |       | 26.4            | 26.4                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-169             | 0.0959            | 0.3836 | 0.7   | --      |       | 0.7             | 0.7                      | 0.01    |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-189             | 0.325             | 1.3    | 7.39  | --      |       | 7.4             | 7.4                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.8               | 6.9   | 0.5       | 0.5   | 8.3          | 7.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 612               | Fine  | Field   | NW C-4 | NW              | Commercial               |       |          |                       |       |                      |       |  |  |  |  |  |  |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|--|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |  |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.593             | 2.372 |         | --     |                 | 0.3                      |       | 0.1      | 0.0                   |       | 0.4%                 |       |  |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.101             | 0.404 |         | --     |                 | 0.1                      |       | 1        | 0.1                   |       | 1.2%                 |       |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.125             | 0.5   | 1.18    | --     |                 | 1.2                      | 1.2   | 0.05     | 0.1                   | 0.1   | 0.7%                 | 1.1%  |  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.111             | 0.444 | 4.08    | --     |                 | 4.1                      | 4.1   | 0.5      | 2.1                   | 2.1   | 25.1%                | 36.4% |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 2.03              | 8.12  |         | E      |                 | 1.0                      |       | 1        | 1.0                   |       | 12.2%                |       |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.139             | 0.556 | 2.3     | --     |                 | 2.3                      | 2.3   | 0.1      | 0.2                   | 0.2   | 2.8%                 | 4.1%  |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.126             | 0.504 | 1.77    | --     |                 | 1.8                      | 1.8   | 0.1      | 0.2                   | 0.2   | 2.2%                 | 3.2%  |  |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.142             | 0.568 | 3.01    | --     |                 | 3.0                      | 3.0   | 0.1      | 0.3                   | 0.3   | 3.7%                 | 5.3%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 1.02              | 4.08  |         | E      | <5x*B           | 0.5                      |       | 0.1      | 0.1                   |       | 0.6%                 |       |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 2.33              | 9.32  |         | E      |                 | 1.2                      |       | 0.1      | 0.1                   |       | 1.5%                 |       |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.107             | 0.428 | 5.23    | --     |                 | 5.2                      | 5.2   | 0.1      | 0.5                   | 0.5   | 6.4%                 | 9.2%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.11              | 0.44  | 4.11    | --     |                 | 4.1                      | 4.1   | 0.1      | 0.4                   | 0.4   | 5.0%                 | 7.3%  |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.158             | 0.632 | 33.2    | --     |                 | 33.2                     | 33.2  | 0.01     | 0.3                   | 0.3   | 4.1%                 | 5.9%  |  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.262             | 1.048 | 2.86    | --     |                 | 2.9                      | 2.9   | 0.01     | 0.0                   | 0.0   | 0.4%                 | 0.5%  |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.163             | 0.652 | 110     | --     |                 | 110.0                    | 110.0 | 0.01     | 1.1                   | 1.1   | 13.5%                | 19.5% |  |  |  |  |  |  |
| OCDF                | 0.189             | 0.756 | 72.7    | J      |                 | 72.7                     | 36.4  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| OCDD                | 0.284             | 1.136 | 870     | --     |                 | 870.0                    | 870.0 | 0.0001   | 0.1                   | 0.1   | 1.1%                 | 1.5%  |  |  |  |  |  |  |
| PCB-77              | 0.329             | 1.316 | 83.5    | --     |                 | 83.5                     | 83.5  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| PCB-81              | 0.383             | 1.532 | 4.11    | B      | <5x*B           | 4.1                      | 2.1   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-105             | 3.63              | 14.52 | 665     | --     |                 | 665.0                    | 665.0 | 0.0001   | 0.1                   | 0.1   | 0.8%                 | 1.2%  |  |  |  |  |  |  |
| PCB-114             | 3.8               | 15.2  | 20.3    | --     |                 | 20.3                     | 20.3  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |  |  |  |  |  |  |
| PCB-118             | 3.76              | 15.04 | 1300    | CJ     |                 | 1300.0                   | 650.0 | 0.0001   | 0.1                   | 0.1   | 1.6%                 | 1.2%  |  |  |  |  |  |  |
| PCB-123             | 4.27              | 17.08 | 26.7    | --     |                 | 26.7                     | 26.7  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-126             | 23                | 92    |         | E      |                 | 11.5                     |       | 0.1      | 1.2                   |       | 14.1%                |       |  |  |  |  |  |  |
| PCB-156             | 1.33              | 5.32  | 272     | --     |                 | 272.0                    | 272.0 | 0.0005   | 0.1                   | 0.1   | 1.7%                 | 2.4%  |  |  |  |  |  |  |
| PCB-157             | 1.38              | 5.52  | 70.2    | --     |                 | 70.2                     | 70.2  | 0.0005   | 0.0                   | 0.0   | 0.4%                 | 0.6%  |  |  |  |  |  |  |
| PCB-167             | 1.36              | 5.44  | 128     | J      |                 | 128.0                    | 64.0  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-169             | 0.192             | 0.768 | 2.23    | B      | <5x*B           | 2.2                      | 1.1   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.2%  |  |  |  |  |  |  |
| PCB-189             | 0.435             | 1.74  | 21.2    | --     |                 | 21.2                     | 21.2  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 6.6               | 5.3   | 1.5       | 0.3   | 8.1          | 5.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 726               | Fine   | Field   | NW C-5 | NW              | Commercial               | Incomplete analysis for PCBs |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|------------------------------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |                              | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant                        | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.618             | 2.472  |         | E      |                 | 0.3                      |                              | 0.1      | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.462             | 1.848  |         | E      |                 | 0.2                      |                              | 1        | 0.2                   |       | 2.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0809            | 0.3236 | 0.546   | --     |                 | 0.5                      | 0.5                          | 0.05     | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 1.03              | 4.12   |         | E      |                 | 0.5                      |                              | 0.5      | 0.3                   |       | 3.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0936            | 0.3744 | 2.18    | --     |                 | 2.2                      | 2.2                          | 1        | 2.2                   | 2.2   | 28.9%                | 31.9% |
| 1,2,3,4,7,8-HxCDF   | 0.16              | 0.64   | 1.45    | --     |                 | 1.5                      | 1.5                          | 0.1      | 0.2                   | 0.2   | 2.0%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.137             | 0.548  | 1.3     | --     |                 | 1.3                      | 1.3                          | 0.1      | 0.1                   | 0.1   | 1.7%                 | 1.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.234             | 0.936  | 2.68    | --     |                 | 2.7                      | 2.7                          | 0.1      | 0.3                   | 0.3   | 3.5%                 | 3.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.303             | 1.212  | 0.737   | B      | <5x*B           | 0.7                      | 0.2                          | 0.1      | 0.1                   | 0.0   | 0.9%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.106             | 0.424  | 2.71    | --     |                 | 2.7                      | 2.7                          | 0.1      | 0.3                   | 0.3   | 3.5%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0918            | 0.3672 | 6.09    | --     |                 | 6.1                      | 6.1                          | 0.1      | 0.6                   | 0.6   | 8.0%                 | 8.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.101             | 0.404  | 3.9     | J      |                 | 3.9                      | 2.0                          | 0.1      | 0.4                   | 0.2   | 5.1%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.516             | 2.064  | 17.5    | --     |                 | 17.5                     | 17.5                         | 0.01     | 0.2                   | 0.2   | 2.3%                 | 2.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.842             | 3.368  | 1.87    | I      |                 | 1.9                      | 0.9                          | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.206             | 0.824  | 117     | --     |                 | 117.0                    | 117.0                        | 0.01     | 1.2                   | 1.2   | 15.3%                | 17.0% |
| OCDF                | 0.789             | 3.16   | 43.1    | R      |                 | 0.4                      |                              | 0.0001   | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.271             | 1.08   | 866     | R      |                 | 0.1                      |                              | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-77              | 0.0532            | 0.2128 | 101     | --     |                 | 101.0                    | 101.0                        | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0708            | 0.2832 | 4.12    | B      | <5x*B           | 4.1                      | 2.1                          | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             |                   |        |         | --     | <5x*B           |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-114             |                   |        |         | --     | <5x*B           |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-118             |                   |        |         | --     | <5x*B           |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-123             |                   |        |         | --     | <5x*B           |                          |                              | 0.0001   |                       |       |                      |       |
| PCB-126             | 0.199             | 0.796  | 16.4    | --     |                 | 16.4                     | 16.4                         | 0.1      | 1.6                   | 1.6   | 21.5%                | 23.8% |
| PCB-156             |                   |        |         | --     | <5x*B           |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-157             |                   |        |         | --     | <5x*B           |                          |                              | 0.0005   |                       |       |                      |       |
| PCB-167             |                   |        |         | --     | <5x*B           |                          |                              | 0.00001  |                       |       |                      |       |
| PCB-169             | 0.187             | 0.748  | 1.46    | J      |                 | 1.5                      | 0.7                          | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             |                   |        |         | --     |                 |                          |                              | 0.0001   |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 6.1               | 5.3   | 1.6       | 1.6   | 7.7          | 6.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 715               | Fine   | Field   | NW C-6 | NW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0726            | 0.2904 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0128            | 0.0512 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0411            | 0.1644 | 0.102   | --     |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 1.1%                 | 1.7%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0367            | 0.1468 | 0.108   | --     |                 | 0.1                      | 0.1   | 0.5            | 0.1                   | 0.1   | 11.1%                | 16.6% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.227             | 0.908  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 22.1%                |       |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.124             | 0.496  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0205            | 0.082  | 0.241   | B      | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.4%                 | 3.3%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0229            | 0.0916 | 0.187   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.4%                 | 6.6%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0331            | 0.1324 | 0.332   | B      | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 6.6%                 | 6.6%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0302            | 0.1208 | 0.27    | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.6%                 | 9.9%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0262            | 0.1048 | 0.263   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.6%                 | 9.9%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0304            | 0.1216 | 0.246   | J      |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.4%                 | 3.3%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0229            | 0.0916 | 1.11    | B      | <5x*B           | 1.1                      | 0.6   | 0.01           | 0.0                   | 0.0   | 2.4%                 | 2.0%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0388            | 0.1552 |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0244            | 0.0976 | 5.19    | --     |                 | 5.2                      | 5.2   | 0.01           | 0.1                   | 0.1   | 11.5%                | 17.2% |      |       |      |       |      |
| OCDF                | 0.0851            | 0.3404 | 2.28    | B      | <5x*B           | 2.3                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.035             | 0.14   | 35.7    | --     |                 | 35.7                     | 35.7  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 0.0791            | 0.3164 | 3.83    | B      | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.0747            | 0.2988 | 0.351   | B      | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.063             | 0.252  | 11.5    | B      | <5x*B           | 11.5                     | 5.8   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-114             | 0.0621            | 0.2484 | 0.635   | --     |                 | 0.6                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.0532            | 0.2128 | 22.6    | B      | <5x*B           | 22.6                     | 11.3  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |      |       |      |       |      |
| PCB-123             | 0.0604            | 0.2416 | 1.07    | --     |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.0844            | 0.3376 | 0.642   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 13.3%                | 19.9% |      |       |      |       |      |
| PCB-156             | 0.0788            | 0.3152 | 5.32    | B      | <5x*B           | 5.3                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |      |       |      |       |      |
| PCB-157             | 0.0794            | 0.3176 | 1.59    | B      | <5x*B           | 1.6                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.0753            | 0.3012 | 3.35    | BJ     | <5x*B           | 3.4                      | 1.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0285            | 0.114  | 0.168   | B      | <5x*B           | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |       |      |       |      |
| PCB-189             | 0.216             | 0.864  |         | --     |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.1       | 0.1   | 0.4          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 153       | Fine              | Field | NW C-7  | NW   | Commercial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.279             | 1.116 |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |       |       |      |       |      |
| 2,3,7,8-TCDD        | 0.255             | 1.02  |         | I    |                 | 0.1                      |       | 1              | 0.1                   |       | 5.0%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.492             | 1.968 | 0.541   | --   |                 | 0.5                      | 0.3   | 0.05           | 0.0                   | 0.0   | 1.2%                 |       | 2.7%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.627             | 2.508 |         | EI   |                 | 0.3                      |       | 0.5            | 0.2                   |       | 7.5%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.727             | 2.908 |         | EI   |                 | 0.4                      |       | 1              | 0.4                   |       | 19.9%                |       |       |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.46              | 1.84  | 0.598   | I    |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.0%                 |       | 5.5%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.425             | 1.7   |         | I    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |       |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 1.19              | 4.76  | 6.91    | D    |                 | 3.5                      |       | 0.1            | 0.4                   |       | 17.4%                |       |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.17              | 4.68  |         | --   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 3.0%                 |       |       |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.377             | 1.508 | 0.587   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.0%                 |       | 5.5%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.942             | 3.768 |         | EI   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 2.5%                 |       |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.321             | 1.284 |         | IJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 5.09              | 20.36 |         | I    |                 | 2.5                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |       |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 38.6              | 154.4 |         | --   |                 | 19.3                     |       | 0.01           | 0.2                   |       | 9.6%                 |       |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 1.1               | 4.4   | 18.9    | --   |                 | 18.9                     | 18.9  | 0.01           | 0.2                   | 0.2   | 9.4%                 |       | 34.6% |       |      |       |      |
| OCDF                | 3.5               | 14    | 16.4    | IJ   |                 | 16.4                     | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.2%  |       |      |       |      |
| OCDD                | 4.08              | 16.32 | 131     | I    |                 | 131.0                    | 131.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 |       | 2.4%  |       |      |       |      |
| PCB-77              | 0.105             | 0.42  | 9.84    | B    | <5x*B           | 9.8                      | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.1%  |       |      |       |      |
| PCB-81              | 0.114             | 0.456 | 1.08    | --   |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 0.278             | 1.112 | 53.9    | B    | <5x*B           | 53.9                     | 27.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 |       | 0.5%  |       |      |       |      |
| PCB-114             | 2.34              | 9.36  |         | E    |                 | 1.2                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |
| PCB-118             | 0.312             | 1.248 | 105     | B    | <5x*B           | 105.0                    | 52.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 |       | 1.0%  |       |      |       |      |
| PCB-123             | 0.354             | 1.416 | 3.03    | --   |                 | 3.0                      | 3.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.1%  |       |      |       |      |
| PCB-126             | 0.407             | 1.628 | 2.36    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 11.9%                |       | 43.9% |       |      |       |      |
| PCB-156             | 0.501             | 2.004 | 29.7    | --   |                 | 29.7                     | 29.7  | 0.0005         | 0.0                   | 0.0   | 0.7%                 |       | 2.7%  |       |      |       |      |
| PCB-157             | 0.518             | 2.072 | 8.4     | B    | <5x*B           | 8.4                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 |       | 0.4%  |       |      |       |      |
| PCB-167             | 0.509             | 2.036 | 18.7    | J    |                 | 18.7                     | 9.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.326             | 1.304 | 0.405   | --   |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 |       | 0.4%  |       |      |       |      |
| PCB-189             | 0.151             | 0.604 | 7.02    | --   |                 | 7.0                      | 7.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.1%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 0.2   | 0.2       | 0.2   | 2.1          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 101       | Fine              | Field | NW C-8  | NW   | Commercial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.183             | 0.732 |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.3%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.268             | 1.072 |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 3.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.619             | 2.476 |         | --   |                 | 0.3                      |       | 0.05           | 0.0                   |       |                      |       | 0.5%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.519             | 2.076 |         | --   |                 | 0.3                      |       | 0.5            | 0.2                   |       |                      |       | 4.6%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.251             | 1.004 | 0.705   | --   |                 | 0.7                      | 0.4   | 1              | 0.7                   | 0.4   | 21.3%                |       | 17.3% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.995             | 3.98  |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      |       | 1.5%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.432             | 1.728 | 0.999   | --   |                 | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  |       | 3.0%  |       |      | 2.2%  |      |
| 2,3,4,6,7,8-HxCDF   | 0.65              | 2.6   | 1.24    | --   |                 | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.1                  |       | 3.7%  |       |      | 2.6%  |      |
| 1,2,3,7,8,9-HxCDF   | 0.951             | 3.804 |         | --   |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      |       | 1.5%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 1.25              | 5     |         | E    |                 | 0.6                      |       | 0.1            | 0.1                   |       |                      |       | 1.8%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.488             | 1.952 | 2.1     | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 0.2                  |       | 6.4%  |       |      | 9.1%  |      |
| 1,2,3,7,8,9-HxCDD   | 0.456             | 1.824 | 1.51    | J    |                 | 1.5                      | 0.4   | 0.1            | 0.2                   | 0.0   | 0.0                  |       | 4.6%  |       |      | 1.7%  |      |
| 1,2,3,4,6,7,8-HpCDF | 1.14              | 4.56  | 16.8    | --   |                 | 16.8                     | 16.8  | 0.01           | 0.2                   | 0.2   | 0.2                  |       | 5.1%  |       |      | 7.3%  |      |
| 1,2,3,4,7,8,9-HpCDF | 2.25              | 9     |         | --   |                 | 1.1                      |       | 0.01           | 0.0                   |       |                      |       | 0.3%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 1.33              | 5.32  | 54.6    | --   |                 | 54.6                     | 54.6  | 0.01           | 0.5                   | 0.5   | 0.5                  |       | 16.6% |       |      | 23.7% |      |
| OCDF                | 0.632             | 2.528 | 39.9    | J    |                 | 39.9                     | 20.0  | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.1%  |       |      | 0.1%  |      |
| OCDD                | 0.699             | 2.796 | 307     | --   |                 | 307.0                    | 307.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.9%  |       |      | 1.3%  |      |
| PCB-77              | 0.394             | 1.576 | 19.8    | B    | <5x*B           | 19.8                     | 9.9   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.1%  |       |      | 0.0%  |      |
| PCB-81              | 0.563             | 2.252 | 2.07    | --   |                 | 2.1                      | 1.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  |       |      | 0.0%  |      |
| PCB-105             | 0.75              | 3     | 229     | --   |                 | 229.0                    | 229.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.7%  |       |      | 1.0%  |      |
| PCB-114             | 0.784             | 3.136 | 11.3    | --   |                 | 11.3                     | 11.3  | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 0.2%  |       |      | 0.2%  |      |
| PCB-118             | 0.83              | 3.32  | 470     | --   |                 | 470.0                    | 470.0 | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 1.4%  |       |      | 2.0%  |      |
| PCB-123             | 0.944             | 3.776 | 10.2    | J    |                 | 10.2                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  |       |      | 0.0%  |      |
| PCB-126             | 0.35              | 1.4   | 6.63    | --   |                 | 6.6                      | 6.6   | 0.1            | 0.7                   | 0.7   | 0.7                  |       | 20.1% |       |      | 28.6% |      |
| PCB-156             | 0.414             | 1.656 | 92.8    | --   |                 | 92.8                     | 92.8  | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 1.4%  |       |      | 2.0%  |      |
| PCB-157             | 0.428             | 1.712 | 21.9    | --   |                 | 21.9                     | 21.9  | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 0.3%  |       |      | 0.5%  |      |
| PCB-167             | 0.421             | 1.684 | 44.6    | --   |                 | 44.6                     | 44.6  | 0.00001        | 0.0                   | 0.0   | 0.0                  |       | 0.0%  |       |      | 0.0%  |      |
| PCB-169             | 0.699             | 2.796 | 0.882   | I    |                 | 0.9                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.0                  |       | 0.3%  |       |      | 0.2%  |      |
| PCB-189             | 0.465             | 1.86  | 8.16    | --   |                 | 8.2                      | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  |       |      | 0.0%  |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.6               | 1.5   | 0.7       | 0.7   | 3.3          | 2.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 473               | Fine  | Field   | SE C-2 | SE              | Commercial               |        |          |                       |       |                      |       |  |  |  |  |  |  |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|--|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |  |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.599             | 2.396 |         | E      |                 | 0.3                      |        | 0.1      | 0.0                   |       | 0.3%                 |       |  |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0815            | 0.326 | 0.365   | --     |                 | 0.4                      | 0.4    | 1        | 0.4                   | 0.4   | 3.6%                 | 4.0%  |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.261             | 1.044 | 0.692   | --     |                 | 0.7                      | 0.3    | 0.05     | 0.0                   | 0.0   | 0.3%                 | 0.1%  |  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.233             | 0.932 | 2.84    | --     |                 | 2.8                      | 2.8    | 0.5      | 1.4                   | 1.4   | 12.8%                | 13.9% |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.274             | 1.096 | 2.34    | --     |                 | 2.3                      | 2.3    | 1        | 2.3                   | 2.3   | 21.0%                | 22.8% |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.643             | 2.572 | 2.55    | --     |                 | 2.6                      | 1.3    | 0.1      | 0.3                   | 0.1   | 2.4%                 | 1.3%  |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.559             | 2.236 | 3.26    | D      |                 | 1.6                      |        | 0.1      | 0.2                   |       | 1.5%                 |       |  |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.784             | 3.136 | 3.7     | --     |                 | 3.7                      | 3.7    | 0.1      | 0.4                   | 0.4   | 3.4%                 | 3.7%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.808             | 3.232 | 1.02    | B      | <5x*B           | 1.0                      | 0.3    | 0.1      | 0.1                   | 0.0   | 0.9%                 | 0.3%  |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.227             | 0.908 | 3.78    | J      |                 | 3.8                      | 1.9    | 0.1      | 0.4                   | 0.2   | 3.5%                 | 1.9%  |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.189             | 0.756 | 7.21    | --     |                 | 7.2                      | 7.2    | 0.1      | 0.7                   | 0.7   | 6.6%                 | 7.1%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.183             | 0.732 | 5.27    | J      |                 | 5.3                      | 2.6    | 0.1      | 0.5                   | 0.3   | 4.8%                 | 2.6%  |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 1.29              | 5.16  | 40.1    | --     |                 | 40.1                     | 40.1   | 0.01     | 0.4                   | 0.4   | 3.7%                 | 4.0%  |  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 2.56              | 10.24 |         | E      |                 | 1.3                      |        | 0.01     | 0.0                   |       | 0.1%                 |       |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.499             | 1.996 | 201     | --     |                 | 201.0                    | 201.0  | 0.01     | 2.0                   | 2.0   | 18.3%                | 20.0% |  |  |  |  |  |  |
| OCDF                | 0.443             | 1.772 | 102     | I      |                 | 102.0                    | 102.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| OCDD                | 0.345             | 1.38  | 1610    | I      |                 | 1610.0                   | 1610.0 | 0.0001   | 0.2                   | 0.2   | 1.5%                 | 1.6%  |  |  |  |  |  |  |
| PCB-77              | 0.337             | 1.348 | 124     | --     |                 | 124.0                    | 124.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| PCB-81              | 0.394             | 1.576 | 5.36    | B      | <5x*B           | 5.4                      | 2.7    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-105             | 0.49              | 1.96  | 481     | --     |                 | 481.0                    | 481.0  | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.5%  |  |  |  |  |  |  |
| PCB-114             | 18.1              | 72.4  |         | E      |                 | 9.1                      |        | 0.0005   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |  |
| PCB-118             | 0.513             | 2.052 | 891     | --     |                 | 891.0                    | 891.0  | 0.0001   | 0.1                   | 0.1   | 0.8%                 | 0.9%  |  |  |  |  |  |  |
| PCB-123             | 0.583             | 2.332 | 19.4    | --     |                 | 19.4                     | 19.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-126             | 0.182             | 0.728 | 14      | --     |                 | 14.0                     | 14.0   | 0.1      | 1.4                   | 1.4   | 12.8%                | 13.9% |  |  |  |  |  |  |
| PCB-156             | 0.33              | 1.32  | 169     | --     |                 | 169.0                    | 169.0  | 0.0005   | 0.1                   | 0.1   | 0.8%                 | 0.8%  |  |  |  |  |  |  |
| PCB-157             | 0.341             | 1.364 | 41.3    | --     |                 | 41.3                     | 41.3   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |  |  |
| PCB-167             | 0.335             | 1.34  | 77.9    | --     |                 | 77.9                     | 77.9   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-169             | 0.191             | 0.764 | 1.39    | --     |                 | 1.4                      | 1.4    | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| PCB-189             | 0.207             | 0.828 | 23.3    | --     |                 | 23.3                     | 23.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.3               | 8.4   | 1.6       | 1.6   | 10.9         | 10.0  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 781               | Fine   | Field | SE C-3  | SE    | Commercial      |                          |         |          |       |                       |       |                      |       |  |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0445            | 0.178  | 0.112 | NJ      |       | 0.1             |                          | 0.1     | 0.0      |       |                       |       | 0.5%                 |       |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0701            | 0.2804 |       | --      |       | 0.0             |                          | 1       | 0.0      |       |                       |       | 0.0%                 |       |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.151             | 0.604  | 0.164 | B       | <5x*B | 0.2             | 0.0                      | 0.05    | 0.0      | 0.0   | 0.0                   | 0.0   | 0.5%                 | 0.0%  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.222             | 0.888  | 0.33  | B       | <5x*B | 0.3             | 0.1                      | 0.5     | 0.2      | 0.1   | 0.1                   | 0.2   | 7.7%                 | 3.5%  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0748            | 0.2992 | 0.438 | B       | <5x*B | 0.4             | 0.2                      | 1       | 0.4      | 0.2   | 0.2                   | 0.2   | 20.6%                | 13.9% |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.119             | 0.476  | 0.444 | --      |       | 0.4             | 0.2                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 2.1%                 | 1.4%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.109             | 0.436  | 0.609 | BD      | <5x*B | 0.3             |                          | 0.1     | 0.0      |       |                       |       | 1.5%                 |       |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.131             | 0.524  | 0.628 | B       | <5x*B | 0.6             | 0.3                      | 0.1     | 0.1      | 0.0   | 0.0                   | 0.0   | 3.1%                 | 2.1%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.13              | 0.52   | 0.348 | B       | <5x*B | 0.3             | 0.1                      | 0.1     | 0.0      | 0.0   | 0.0                   | 0.0   | 1.5%                 | 0.7%  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.112             | 0.448  | 0.646 | J       |       | 0.6             | 0.3                      | 0.1     | 0.1      | 0.1   | 0.0                   | 0.0   | 3.1%                 | 2.1%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0926            | 0.3704 | 1.32  | --      |       | 1.3             | 1.3                      | 0.1     | 0.1      | 0.1   | 0.1                   | 0.1   | 6.7%                 | 9.0%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0894            | 0.3576 | 0.944 | J       |       | 0.9             | 0.5                      | 0.1     | 0.1      | 0.1   | 0.1                   | 0.1   | 4.6%                 | 3.5%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.143             | 0.572  | 9.18  | --      |       | 9.2             | 9.2                      | 0.01    | 0.1      | 0.1   | 0.1                   | 0.1   | 4.7%                 | 6.4%  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.234             | 0.936  | 0.545 | --      |       | 0.5             | 0.3                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.0   | 0.3%                 | 0.2%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.125             | 0.5    | 49.8  | --      |       | 49.8            | 49.8                     | 0.01    | 0.5      | 0.5   | 0.5                   | 0.5   | 25.7%                | 34.6% |  |  |  |  |
| OCDF                | 0.0785            | 0.314  | 33.7  | --      |       | 33.7            | 33.7                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |
| OCDD                | 0.0661            | 0.2644 | 448   | --      |       | 448.0           | 448.0                    | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 2.3%                 | 3.1%  |  |  |  |  |
| PCB-77              | 0.144             | 0.576  | 8.33  | B       | <5x*B | 8.3             | 4.2                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-81              | 0.194             | 0.776  | 0.911 | B       | <5x*B | 0.9             | 0.5                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-105             | 0.502             | 2.008  | 61.5  | --      |       | 61.5            | 61.5                     | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |  |  |  |  |
| PCB-114             | 5.18              | 20.72  |       | E       |       | 2.6             |                          | 0.0005  | 0.0      |       |                       |       | 0.1%                 |       |  |  |  |  |
| PCB-118             | 0.577             | 2.308  | 131   | --      |       | 131.0           | 131.0                    | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.7%                 | 0.9%  |  |  |  |  |
| PCB-123             | 0.656             | 2.624  | 2.7   | --      |       | 2.7             | 2.7                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-126             | 0.163             | 0.652  | 2.4   | --      |       | 2.4             | 2.4                      | 0.1     | 0.2      | 0.2   | 0.2                   | 0.2   | 12.4%                | 16.7% |  |  |  |  |
| PCB-156             | 0.308             | 1.232  | 28.1  | --      |       | 28.1            | 28.1                     | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.7%                 | 1.0%  |  |  |  |  |
| PCB-157             | 0.319             | 1.276  | 7.17  | --      |       | 7.2             | 7.2                      | 0.0005  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |
| PCB-167             | 0.314             | 1.256  | 13.6  | --      |       | 13.6            | 13.6                     | 0.00001 | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-169             | 0.115             | 0.46   | 0.46  | --      |       | 0.5             | 0.2                      | 0.01    | 0.0      | 0.0   | 0.0                   | 0.0   | 0.3%                 | 0.1%  |  |  |  |  |
| PCB-189             | 0.187             | 0.748  | 3.91  | --      |       | 3.9             | 3.9                      | 0.0001  | 0.0      | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.1   | 0.2       | 0.2   | 1.8          | 1.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 286               | Fine   | Field | SE C-4  | SE   | Commercial      |                          |         |          |       |                       |       |                      |       |       |       |       |       |
|---------------------|-------------------|--------|-------|---------|------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|-------|-------|
| Analyte             | Analytical Limits |        |       | Results |      | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |       |       |
|                     | EDL               | QL     | Conc  | Flag    | Full |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full  | Quant |
| 2,3,7,8-TCDF        | 0.126             | 0.504  | 0.526 | NJ      |      | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.0%  |       |       |       |
| 2,3,7,8-TCDD        | 0.182             | 0.728  | 2.72  | --      |      | 2.7             | 2.7                      | 1       |          | 2.7   | 2.7                   |       |                      |       | 1.9%  |       | 2.3%  |       |
| 1,2,3,7,8-PeCDF     | 0.911             | 3.644  | 1.24  | --      |      | 1.2             | 0.6                      | 0.05    |          | 0.1   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| 2,3,4,7,8-PeCDF     | 0.658             | 2.632  | 3.09  | --      |      | 3.1             | 3.1                      | 0.5     |          | 1.6   | 1.6                   |       |                      |       | 1.1%  |       | 1.3%  |       |
| 1,2,3,7,8-PeCDD     | 0.59              | 2.36   | 53.9  | --      |      | 53.9            | 53.9                     | 1       |          | 53.9  | 53.9                  |       |                      |       | 38.1% |       | 46.7% |       |
| 1,2,3,4,7,8-HxCDF   | 4.01              | 16.04  | 10.3  | --      |      | 10.3            | 5.2                      | 0.1     |          | 1.0   | 0.5                   |       |                      |       | 0.7%  |       | 0.5%  |       |
| 1,2,3,6,7,8-HxCDF   | 3.83              | 15.32  | 6.39  | --      |      | 6.4             | 3.2                      | 0.1     |          | 0.6   | 0.3                   |       |                      |       | 0.5%  |       | 0.3%  |       |
| 2,3,4,6,7,8-HxCDF   | 45.7              | 182.8  |       | D       |      | 11.4            |                          | 0.1     |          | 1.1   |                       |       |                      |       | 0.8%  |       |       |       |
| 1,2,3,7,8,9-HxCDF   | 0.408             | 1.632  | 4.34  | --      |      | 4.3             | 4.3                      | 0.1     |          | 0.4   | 0.4                   |       |                      |       | 0.3%  |       | 0.4%  |       |
| 1,2,3,4,7,8-HxCDD   | 0.194             | 0.776  | 65.1  | --      |      | 65.1            | 65.1                     | 0.1     |          | 6.5   | 6.5                   |       |                      |       | 4.6%  |       | 5.6%  |       |
| 1,2,3,6,7,8-HxCDD   | 0.161             | 0.644  | 201   | --      |      | 201.0           | 201.0                    | 0.1     |          | 20.1  | 20.1                  |       |                      |       | 14.2% |       | 17.4% |       |
| 1,2,3,7,8,9-HxCDD   | 0.153             | 0.612  | 85.6  | J       |      | 85.6            | 42.8                     | 0.1     |          | 8.6   | 4.3                   |       |                      |       | 6.1%  |       | 3.7%  |       |
| 1,2,3,4,6,7,8-HpCDF | 0.521             | 2.084  | 411   | --      |      | 411.0           | 411.0                    | 0.01    |          | 4.1   | 4.1                   |       |                      |       | 2.9%  |       | 3.6%  |       |
| 1,2,3,4,7,8,9-HpCDF | 0.889             | 3.556  | 19.1  | --      |      | 19.1            | 19.1                     | 0.01    |          | 0.2   | 0.2                   |       |                      |       | 0.1%  |       | 0.2%  |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0877            | 0.3508 | 3730  | CJ      |      | 3730.0          | 1865.0                   | 0.01    |          | 37.3  | 18.7                  |       |                      |       | 26.4% |       | 16.2% |       |
| OCDF                | 0.395             | 1.58   | 1500  | CJ      |      | 1500.0          | 750.0                    | 0.0001  |          | 0.2   | 0.1                   |       |                      |       | 0.1%  |       | 0.1%  |       |
| OCDD                | 0.629             | 2.516  | 18200 | CJ      |      | 18200.0         | 9100.0                   | 0.0001  |          | 1.8   | 0.9                   |       |                      |       | 1.3%  |       | 0.8%  |       |
| PCB-77              | 0.296             | 1.184  | 29.4  | --      |      | 29.4            | 29.4                     | 0.0001  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-81              | 0.499             | 1.996  | 3.74  | --      |      | 3.7             | 3.7                      | 0.0001  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-105             | 0.733             | 2.932  | 410   | --      |      | 410.0           | 410.0                    | 0.0001  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-114             | 0.766             | 3.064  | 14.7  | --      |      | 14.7            | 14.7                     | 0.0005  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-118             | 0.723             | 2.892  | 762   | --      |      | 762.0           | 762.0                    | 0.0001  |          | 0.1   | 0.1                   |       |                      |       | 0.1%  |       | 0.1%  |       |
| PCB-123             | 0.822             | 3.288  | 18.4  | --      |      | 18.4            | 18.4                     | 0.0001  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-126             | 0.764             | 3.056  | 8.26  | --      |      | 8.3             | 8.3                      | 0.1     |          | 0.8   | 0.8                   |       |                      |       | 0.6%  |       | 0.7%  |       |
| PCB-156             | 0.414             | 1.656  | 144   | --      |      | 144.0           | 144.0                    | 0.0005  |          | 0.1   | 0.1                   |       |                      |       | 0.1%  |       | 0.1%  |       |
| PCB-157             | 0.428             | 1.712  | 35.8  | --      |      | 35.8            | 35.8                     | 0.0005  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-167             | 0.421             | 1.684  | 63.4  | J       |      | 63.4            | 31.7                     | 0.00001 |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |
| PCB-169             | 9.1               | 36.4   |       | EI      |      | 4.6             |                          | 0.01    |          | 0.0   |                       |       |                      |       | 0.0%  |       |       |       |
| PCB-189             | 0.489             | 1.956  | 12.7  | --      |      | 12.7            | 12.7                     | 0.0001  |          | 0.0   | 0.0                   |       |                      |       | 0.0%  |       | 0.0%  |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 140.2             | 114.3 | 1.0       | 1.0   | 141.2        | 115.3 |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 143       | Fine              | Field  | SE C-5  | SE   | Commercial      | Replacement sample for 817. |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|-----------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*    |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                        | Quant  | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0994            | 0.3976 | 0.403   | NJ   |                 | 0.2                         |        | 0.1      | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.0753            | 0.3012 |         | --   |                 | 0.0                         |        | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0537            | 0.2148 | 0.163   | B    | <5x*B           | 0.2                         | 0.0    | 0.05     | 0.0                   | 0.0   | 0.5%                 | 0.0%  |
| 2,3,4,7,8-PeCDF     | 0.0419            | 0.1676 |         | --   |                 | 0.0                         |        | 0.5      | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0574            | 0.2296 | 0.651   | B    | <5x*B           | 0.7                         | 0.3    | 1        | 0.7                   | 0.3   | 33.6%                | 20.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0765            | 0.306  | 0.309   | B    | <5x*B           | 0.3                         | 0.2    | 0.1      | 0.0                   | 0.0   | 1.4%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.491             | 1.964  |         | E    |                 | 0.2                         |        | 0.1      | 0.0                   |       | 1.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.308             | 1.232  |         | E    |                 | 0.2                         |        | 0.1      | 0.0                   |       | 1.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0911            | 0.3644 | 0.344   | --   |                 | 0.3                         | 0.2    | 0.1      | 0.0                   | 0.0   | 1.4%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.618             | 2.472  |         | E    |                 | 0.3                         |        | 0.1      | 0.0                   |       | 1.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.58              | 2.32   |         | E    |                 | 0.3                         |        | 0.1      | 0.0                   |       | 1.4%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.672             | 2.688  |         | E    |                 | 0.3                         |        | 0.1      | 0.0                   |       | 1.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.141             | 0.564  | 2.8     | --   |                 | 2.8                         | 2.8    | 0.01     | 0.0                   | 0.0   | 1.3%                 | 1.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.225             | 0.9    |         | --   |                 | 0.1                         |        | 0.01     | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.178             | 0.712  | 14.1    | --   |                 | 14.1                        | 14.1   | 0.01     | 0.1                   | 0.1   | 6.8%                 | 9.4%  |
| OCDF                | 0.353             | 1.412  | 4.66    | --   |                 | 4.7                         | 4.7    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.287             | 1.148  | 93.4    | --   |                 | 93.4                        | 93.4   | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-77              | 0.119             | 0.476  | 31.4    | --   |                 | 31.4                        | 31.4   | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.129             | 0.516  | 1.67    | B    | <5x*B           | 1.7                         | 0.8    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.05              | 4.2    | 686     | --   |                 | 686.0                       | 686.0  | 0.0001   | 0.1                   | 0.1   | 3.3%                 | 4.6%  |
| PCB-114             | 1.11              | 4.44   | 42.5    | --   |                 | 42.5                        | 42.5   | 0.0005   | 0.0                   | 0.0   | 1.0%                 | 1.4%  |
| PCB-118             | 1.19              | 4.76   | 1550    | --   |                 | 1550.0                      | 1550.0 | 0.0001   | 0.2                   | 0.2   | 7.4%                 | 10.3% |
| PCB-123             | 1.31              | 5.24   | 26      | --   |                 | 26.0                        | 26.0   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-126             | 0.546             | 2.184  | 6.07    | --   |                 | 6.1                         | 6.1    | 0.1      | 0.6                   | 0.6   | 29.3%                | 40.6% |
| PCB-156             | 0.492             | 1.968  | 188     | --   |                 | 188.0                       | 188.0  | 0.0005   | 0.1                   | 0.1   | 4.5%                 | 6.3%  |
| PCB-157             | 0.514             | 2.056  | 45.1    | --   |                 | 45.1                        | 45.1   | 0.0005   | 0.0                   | 0.0   | 1.1%                 | 1.5%  |
| PCB-167             | 0.492             | 1.968  | 67.8    | --   |                 | 67.8                        | 67.8   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.106             | 0.424  | 0.562   | --   |                 | 0.6                         | 0.6    | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-189             | 0.139             | 0.556  | 7.61    | --   |                 | 7.6                         | 7.6    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.4   | 1.0       | 1.0   | 1.8          | 1.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 817               | Fine   | Field   | SE C-5 | SE              | Commercial               | March sample broke, spilled soil analyzed. Replaced by April sample 143. |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0991            | 0.3964 | 0.278   | NJ     |                 | 0.1                      |  | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0579            | 0.2316 |         | --     |                 | 0.0                      |  | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0472            | 0.1888 |         | --     | <5x*B           | 0.0                      |  | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0373            | 0.1492 | 0.211   | --     |                 | 0.2                      | 0.2  | 0.5            | 0.1                   | 0.1   | 4.8%                 | 5.9%  |
| 1,2,3,7,8-PeCDD     | 0.488             | 1.952  |         | E      | <5x*B           | 0.2                      |  | 1              | 0.2                   |       | 9.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0635            | 0.254  | 0.327   | B      | <5x*B           | 0.3                      | 0.2  | 0.1            | 0.0                   | 0.0   | 1.4%                 | 1.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.416             | 1.664  |         | E      |                 | 0.2                      |  | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.419             | 1.676  |         | E      |                 | 0.2                      |  | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0826            | 0.3304 | 0.552   | --     |                 | 0.6                      | 0.6  | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0525            | 0.21   | 0.521   | --     |                 | 0.5                      | 0.5  | 0.1            | 0.1                   | 0.1   | 2.4%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.045             | 0.18   | 0.629   | --     |                 | 0.6                      | 0.6  | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0457            | 0.1828 | 0.693   | --     |                 | 0.7                      | 0.7  | 0.1            | 0.1                   | 0.1   | 3.4%                 | 4.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0957            | 0.3828 | 2.65    | --     |                 | 2.7                      | 2.7  | 0.01           | 0.0                   | 0.0   | 1.3%                 | 1.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.271             | 1.084  |         | E      |                 | 0.1                      |  | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0715            | 0.286  | 13.6    | --     |                 | 13.6                     | 13.6   | 0.01           | 0.1                   | 0.1   | 6.6%                 | 8.0%  |
| OCDF                | 0.156             | 0.624  | 4.64    | --     |                 | 4.6                      | 4.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.116             | 0.464  | 91.1    | --     |                 | 91.1                     | 91.1   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 0.109             | 0.436  | 32.5    | --     |                 | 32.5                     | 32.5   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.127             | 0.508  | 1.54    | B      | <5x*B           | 1.5                      | 0.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.721             | 2.884  | 989     | --     |                 | 989.0                    | 989.0  | 0.0001         | 0.1                   | 0.1   | 4.8%                 | 5.8%  |
| PCB-114             | 0.76              | 3.04   | 55.1    | --     |                 | 55.1                     | 55.1   | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 1.6%  |
| PCB-118             | 0.896             | 3.584  | 2190    | CJ     |                 | 2190.0                   | 1095.0   | 0.0001         | 0.2                   | 0.1   | 10.6%                | 6.5%  |
| PCB-123             | 0.987             | 3.948  | 36.6    | --     |                 | 36.6                     | 36.6   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-126             | 0.878             | 3.512  | 7.64    | --     |                 | 7.6                      | 7.6  | 0.1            | 0.8                   | 0.8   | 36.7%                | 44.8% |
| PCB-156             | 0.646             | 2.584  | 259     | --     |                 | 259.0                    | 259.0  | 0.0005         | 0.1                   | 0.1   | 6.3%                 | 7.6%  |
| PCB-157             | 0.675             | 2.7    | 59.7    | --     |                 | 59.7                     | 59.7   | 0.0005         | 0.0                   | 0.0   | 1.4%                 | 1.8%  |
| PCB-167             | 0.645             | 2.58   | 92.5    | --     |                 | 92.5                     | 92.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-169             | 0.544             | 2.176  |         | E      |                 | 0.3                      |  | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.295             | 1.18   | 9.57    | --     |                 | 9.6                      | 9.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.6   | 1.2       | 1.1   | 2.0          | 1.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 313       | Fine              | Field  | SE C-6  | SE   | Commercial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0321            | 0.1284 | --      |      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.00096           | 0.0038 | 0.0727  | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 10.4%                | 15.4% |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0172            | 0.0688 | 0.176   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.0%                 | 1.5%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.128             | 0.512  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 5.2%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0301            | 0.1204 | 0.291   | B    | <5x*B           | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 31.1%                | 15.4% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0321            | 0.1284 | 0.236   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 3.1%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.204             | 0.816  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0321            | 0.1284 | --      |      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0364            | 0.1456 | 0.327   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 4.6%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0526            | 0.2104 | 0.298   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 1.5%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.048             | 0.192  | 0.471   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.2%                 | 7.7%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.382             | 1.528  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 2.33              | 9.32   | --      |      |                 | 1.2                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0685            | 0.274  | 0.188   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.067             | 0.268  | 11.5    | --   |                 | 11.5                     | 11.5  | 0.01           | 0.1                   | 0.1   | 11.9%                | 17.7% |      |       |      |       |      |
| OCDF                | 0.0324            | 0.1296 | 4.33    | --   |                 | 4.3                      | 4.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.0447            | 0.1788 | 87.3    | --   |                 | 87.3                     | 87.3  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.3%  |      |       |      |       |      |
| PCB-77              | 0.0345            | 0.138  | 12.7    | --   |                 | 12.7                     | 12.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |
| PCB-81              | 0.044             | 0.176  | 0.62    | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.308             | 1.232  | 78.9    | --   |                 | 78.9                     | 78.9  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |      |       |      |       |      |
| PCB-114             | 0.322             | 1.288  | 6.7     | --   |                 | 6.7                      | 6.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |      |       |      |       |      |
| PCB-118             | 0.319             | 1.276  | 189     | --   |                 | 189.0                    | 189.0 | 0.0001         | 0.0                   | 0.0   | 2.0%                 | 2.9%  |      |       |      |       |      |
| PCB-123             | 0.362             | 1.448  | 3.84    | J    |                 | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.128             | 0.512  | 1.52    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 15.6%                | 23.1% |      |       |      |       |      |
| PCB-156             | 0.261             | 1.044  | 30.7    | --   |                 | 30.7                     | 30.7  | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 2.4%  |      |       |      |       |      |
| PCB-157             | 0.27              | 1.08   | 7.55    | --   |                 | 7.6                      | 7.6   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |       |      |
| PCB-167             | 0.266             | 1.064  | 13.7    | --   |                 | 13.7                     | 13.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0792            | 0.3168 | 0.363   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |       |      |
| PCB-189             | 0.107             | 0.428  | 3.12    | --   |                 | 3.1                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.4   | 0.2       | 0.2   | 0.9          | 0.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 702               | Fine   | Field | SE C-8  | SE    | Commercial      |                          |         |          |       |                       |       |                      |       |       |       |      |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.274             | 1.096  |       | E       |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.2%  |       |      |       |
| 2,3,7,8-TCDD        | 0.215             | 0.86   |       | E       |       | 0.1             |                          | 1       |          | 0.1   |                       |       |                      |       | 2.0%  |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0877            | 0.3508 | 0.474 | --      |       | 0.5             | 0.5                      | 0.05    | 0.0      | 0.0   |                       |       |                      |       | 0.5%  | 0.6%  |      |       |
| 2,3,4,7,8-PeCDF     | 0.0778            | 0.3112 | 0.617 | --      |       | 0.6             | 0.6                      | 0.5     | 0.3      | 0.3   |                       |       |                      |       | 6.1%  | 6.7%  |      |       |
| 1,2,3,7,8-PeCDD     | 0.0857            | 0.3428 | 1.04  | --      |       | 1.0             | 1.0                      | 1       | 1.0      | 1.0   |                       |       |                      |       | 20.3% | 22.3% |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0557            | 0.2228 | 1.07  | --      |       | 1.1             | 1.1                      | 0.1     | 0.1      | 0.1   |                       |       |                      |       | 2.2%  | 2.5%  |      |       |
| 1,2,3,6,7,8-HxCDF   | 2.28              | 9.12   |       | D       |       | 0.6             |                          | 0.1     |          | 0.1   |                       |       |                      |       | 1.2%  |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0892            | 0.3568 | 1.2   | --      |       | 1.2             | 1.2                      | 0.1     | 0.1      | 0.1   |                       |       |                      |       | 2.4%  | 2.7%  |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.113             | 0.452  | 0.756 | --      |       | 0.8             | 0.8                      | 0.1     | 0.1      | 0.1   |                       |       |                      |       | 1.6%  | 1.8%  |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0689            | 0.2756 | 1.5   | --      |       | 1.5             | 1.5                      | 0.1     | 0.2      | 0.2   |                       |       |                      |       | 3.0%  | 3.3%  |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0611            | 0.2444 | 3.54  | --      |       | 3.5             | 3.5                      | 0.1     | 0.4      | 0.4   |                       |       |                      |       | 7.1%  | 7.8%  |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0704            | 0.2816 | 2.26  | J       |       | 2.3             | 1.1                      | 0.1     | 0.2      | 0.1   |                       |       |                      |       | 4.7%  | 2.5%  |      |       |
| 1,2,3,4,6,7,8-HpCDF | 22.1              | 88.4   |       | D       |       | 5.5             |                          | 0.01    | 0.1      |       |                       |       |                      |       | 1.1%  |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.125             | 0.5    | 1.16  | --      |       | 1.2             | 1.2                      | 0.01    | 0.0      | 0.0   |                       |       |                      |       | 0.2%  | 0.3%  |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0979            | 0.3916 | 87.4  | --      |       | 87.4            | 87.4                     | 0.01    | 0.9      | 0.9   |                       |       |                      |       | 17.7% | 19.5% |      |       |
| OCDF                | 0.196             | 0.784  | 33.9  | --      |       | 33.9            | 33.9                     | 0.0001  | 0.0      | 0.0   |                       |       |                      |       | 0.1%  | 0.1%  |      |       |
| OCDD                | 0.234             | 0.936  | 680   | --      |       | 680.0           | 680.0                    | 0.0001  | 0.1      | 0.1   |                       |       |                      |       | 1.4%  | 1.5%  |      |       |
| PCB-77              | 0.588             | 2.352  | 70.5  | B       | <5x*B | 70.5            | 35.3                     | 0.0001  | 0.0      | 0.0   |                       |       |                      |       | 0.1%  | 0.1%  |      |       |
| PCB-81              | 0.544             | 2.176  | 3.16  | B       | <5x*B | 3.2             | 1.6                      | 0.0001  | 0.0      | 0.0   |                       |       |                      |       | 0.0%  | 0.0%  |      |       |
| PCB-105             | 3.86              | 15.44  | 648   | CJ      |       | 648.0           | 324.0                    | 0.0001  | 0.1      | 0.0   |                       |       |                      |       | 1.3%  | 0.7%  |      |       |
| PCB-114             | 3.78              | 15.12  | 32.6  | --      |       | 32.6            | 32.6                     | 0.0005  | 0.0      | 0.0   |                       |       |                      |       | 0.3%  | 0.4%  |      |       |
| PCB-118             | 3.06              | 12.24  | 1370  | CJ      |       | 1370.0          | 685.0                    | 0.0001  | 0.1      | 0.1   |                       |       |                      |       | 2.8%  | 1.5%  |      |       |
| PCB-123             | 3.35              | 13.4   | 29.6  | --      |       | 29.6            | 29.6                     | 0.0001  | 0.0      | 0.0   |                       |       |                      |       | 0.1%  | 0.1%  |      |       |
| PCB-126             | 0.493             | 1.972  | 10.2  | --      |       | 10.2            | 10.2                     | 0.1     | 1.0      | 1.0   |                       |       |                      |       | 20.7% | 22.8% |      |       |
| PCB-156             | 1.17              | 4.68   | 212   | --      |       | 212.0           | 212.0                    | 0.0005  | 0.1      | 0.1   |                       |       |                      |       | 2.1%  | 2.4%  |      |       |
| PCB-157             | 1.22              | 4.88   | 50.8  | --      |       | 50.8            | 50.8                     | 0.0005  | 0.0      | 0.0   |                       |       |                      |       | 0.5%  | 0.6%  |      |       |
| PCB-167             | 1.07              | 4.28   | 87.8  | --      |       | 87.8            | 87.8                     | 0.00001 | 0.0      | 0.0   |                       |       |                      |       | 0.0%  | 0.0%  |      |       |
| PCB-169             | 0.959             | 3.836  |       | E       |       | 0.5             |                          | 0.01    | 0.0      | 0.0   |                       |       |                      |       | 0.1%  |       |      |       |
| PCB-189             | 0.793             | 3.172  | 14.6  | --      |       | 14.6            | 14.6                     | 0.0001  | 0.0      | 0.0   |                       |       |                      |       | 0.0%  | 0.0%  |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.7               | 3.3   | 1.3       | 1.2   | 5.0          | 4.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 659               | Fine  | Field | SW C-1  | SW    | Commercial      |                          |         |          |      |                       |      |                      |      |       |      |       |  |
|---------------------|-------------------|-------|-------|---------|-------|-----------------|--------------------------|---------|----------|------|-----------------------|------|----------------------|------|-------|------|-------|--|
| Analyte             | Analytical Limits |       |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |      |       |      |       |  |
|                     | EDL               | QL    | Conc  | Flag    | Full  |                 | Human                    | Full    | Quant    | Full | Quant                 | Full | Quant                | Full | Quant | Full | Quant |  |
| 2,3,7,8-TCDF        | 0.165             | 0.66  | --    | --      | 0.1   |                 | 0.1                      | 0.0     |          | 0.1% |                       |      |                      |      |       |      |       |  |
| 2,3,7,8-TCDD        | 0.1               | 0.4   | 0.658 | --      | 0.7   | 0.7             | 1                        | 0.7     | 0.7      | 8.0% |                       |      |                      |      |       |      | 9.2%  |  |
| 1,2,3,7,8-PeCDF     | 2.55              | 10.2  | --    | --      | <5x*B | 1.3             |                          | 0.05    | 0.1      |      |                       |      |                      |      |       |      | 0.7%  |  |
| 2,3,4,7,8-PeCDF     | 2.17              | 8.68  | 0.813 | --      |       | 1.1             |                          | 0.5     | 0.6      |      |                       |      |                      |      |       |      | 6.3%  |  |
| 1,2,3,7,8-PeCDD     | 0.222             | 0.888 | 1.99  | --      |       | 2.0             | 2.0                      | 1       | 2.0      | 2.0  | 23.0%                 |      |                      |      |       |      | 26.2% |  |
| 1,2,3,4,7,8-HxCDF   | 0.263             | 1.052 | 1.25  | --      |       | 1.3             | 1.3                      | 0.1     | 0.1      | 0.1  | 1.5%                  |      |                      |      |       |      | 1.7%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.238             | 0.952 | 2.04  | D       |       | 1.0             |                          | 0.1     | 0.1      |      |                       |      |                      |      |       |      | 1.1%  |  |
| 2,3,4,6,7,8-HxCDF   | 0.289             | 1.156 | 1.24  | --      |       | 1.2             | 1.2                      | 0.1     | 0.1      | 0.1  | 1.4%                  |      |                      |      |       |      | 1.6%  |  |
| 1,2,3,7,8,9-HxCDF   | 0.298             | 1.192 | 0.799 | B       | <5x*B | 0.8             | 0.2                      | 0.1     | 0.1      | 0.0  | 0.9%                  |      |                      |      |       |      | 0.3%  |  |
| 1,2,3,4,7,8-HxCDD   | 0.163             | 0.652 | 1.65  | J       |       | 1.7             | 0.8                      | 0.1     | 0.2      | 0.1  | 2.0%                  |      |                      |      |       |      | 1.0%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.135             | 0.54  | 5.28  | --      |       | 5.3             | 5.3                      | 0.1     | 0.5      | 0.5  | 6.1%                  |      |                      |      |       |      | 6.9%  |  |
| 1,2,3,7,8,9-HxCDD   | 0.131             | 0.524 | 3.62  | J       |       | 3.6             | 1.8                      | 0.1     | 0.4      | 0.2  | 4.1%                  |      |                      |      |       |      | 2.4%  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.713             | 2.852 | 25.2  | --      |       | 25.2            | 25.2                     | 0.01    | 0.3      | 0.3  | 2.9%                  |      |                      |      |       |      | 3.3%  |  |
| 1,2,3,4,7,8,9-HpCDF | 1.11              | 4.44  | 1.66  | --      |       | 1.7             | 0.8                      | 0.01    | 0.0      | 0.0  | 0.2%                  |      |                      |      |       |      | 0.1%  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.288             | 1.152 | 158   | --      |       | 158.0           | 158.0                    | 0.01    | 1.6      | 1.6  | 18.1%                 |      |                      |      |       |      | 20.7% |  |
| OCDF                | 0.158             | 0.632 | 83.9  | --      |       | 83.9            | 83.9                     | 0.0001  | 0.0      | 0.0  | 0.1%                  |      |                      |      |       |      | 0.1%  |  |
| OCDD                | 0.178             | 0.712 | 1390  | --      |       | 1390.0          | 1390.0                   | 0.0001  | 0.1      | 0.1  | 1.6%                  |      |                      |      |       |      | 1.8%  |  |
| PCB-77              | 0.143             | 0.572 | 72.6  | --      |       | 72.6            | 72.6                     | 0.0001  | 0.0      | 0.0  | 0.1%                  |      |                      |      |       |      | 0.1%  |  |
| PCB-81              | 0.195             | 0.78  | 4.76  | B       | <5x*B | 4.8             | 2.4                      | 0.0001  | 0.0      | 0.0  | 0.0%                  |      |                      |      |       |      | 0.0%  |  |
| PCB-105             | 3.72              | 14.88 | 661   | --      |       | 661.0           | 661.0                    | 0.0001  | 0.1      | 0.1  | 0.8%                  |      |                      |      |       |      | 0.9%  |  |
| PCB-114             | 3.89              | 15.56 | 22.3  | --      |       | 22.3            | 22.3                     | 0.0005  | 0.0      | 0.0  | 0.1%                  |      |                      |      |       |      | 0.1%  |  |
| PCB-118             | 4.04              | 16.16 | 894   | --      |       | 894.0           | 894.0                    | 0.0001  | 0.1      | 0.1  | 1.0%                  |      |                      |      |       |      | 1.2%  |  |
| PCB-123             | 4.6               | 18.4  | 36.6  | --      |       | 36.6            | 36.6                     | 0.0001  | 0.0      | 0.0  | 0.0%                  |      |                      |      |       |      | 0.0%  |  |
| PCB-126             | 0.275             | 1.1   | 14.9  | --      |       | 14.9            | 14.9                     | 0.1     | 1.5      | 1.5  | 17.1%                 |      |                      |      |       |      | 19.5% |  |
| PCB-156             | 1.25              | 5     | 324   | --      |       | 324.0           | 324.0                    | 0.0005  | 0.2      | 0.2  | 1.9%                  |      |                      |      |       |      | 2.1%  |  |
| PCB-157             | 1.3               | 5.2   | 91.6  | --      |       | 91.6            | 91.6                     | 0.0005  | 0.0      | 0.0  | 0.5%                  |      |                      |      |       |      | 0.6%  |  |
| PCB-167             | 1.28              | 5.12  | 145   | --      |       | 145.0           | 145.0                    | 0.00001 | 0.0      | 0.0  | 0.0%                  |      |                      |      |       |      | 0.0%  |  |
| PCB-169             | 0.508             | 2.032 | 1.73  | --      |       | 1.7             | 0.9                      | 0.01    | 0.0      | 0.0  | 0.2%                  |      |                      |      |       |      | 0.1%  |  |
| PCB-189             | 0.391             | 1.564 | 33.3  | --      |       | 33.3            | 33.3                     | 0.0001  | 0.0      | 0.0  | 0.0%                  |      |                      |      |       |      | 0.0%  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 6.9               | 5.7   | 1.9       | 1.9   | 8.8          | 7.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 219       | Fine              | Field | SW C-10 | SW   | Commercial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.226             | 0.904 |         | I    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.297             | 1.188 |         | I    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 10.7% |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.463             | 1.852 |         | I    |                 | 0.2                      |       | 0.05           | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.399             | 1.596 |         | I    |                 | 0.2                      |       | 0.5            | 0.1                   |       |                      |       | 10.7% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.532             | 2.128 |         | I    |                 | 0.3                      |       | 1              | 0.3                   |       |                      |       | 32.0% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.273             | 1.092 |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.239             | 0.956 |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.58              | 2.32  | 1.72    | ID   |                 | 0.9                      |       | 0.1            | 0.1                   |       |                      |       | 9.6%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.576             | 6.304 |         | I    |                 | 0.8                      |       | 0.1            | 0.1                   |       |                      |       | 8.5%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.362             | 1.448 |         | --   |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 2.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.334             | 1.336 |         | --   |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 2.1%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.304             | 1.216 |         | J    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 2.1%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.593             | 2.372 | 2.24    | --   |                 | 2.2                      | 1.1   | 0.01           | 0.0                   | 0.0   |                      |       | 2.4%  | 10.6% |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 2.25              | 9     |         | I    |                 | 1.1                      |       | 0.01           | 0.0                   |       |                      |       | 1.2%  |       |      |       |      |
| OCDF                | 3.42              | 13.68 | 5.41    | R    |                 | 1.7                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| OCDD                | 3.53              | 14.12 | 68.7    | R    |                 | 1.8                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| PCB-77              | 0.373             | 1.492 | 4.39    | B    | <5x*B           | 4.4                      | 2.2   | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  | 0.2%  |      |       |      |
| PCB-81              | 1.04              | 4.16  |         | E    |                 | 0.5                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| PCB-105             | 0.368             | 1.472 | 29.2    | B    | <5x*B           | 29.2                     | 14.6  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.3%  | 1.4%  |      |       |      |
| PCB-114             | 0.384             | 1.536 | 1.99    | --   |                 | 2.0                      | 2.0   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.1%  | 1.0%  |      |       |      |
| PCB-118             | 0.41              | 1.64  | 65      | B    | <5x*B           | 65.0                     | 32.5  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.7%  | 3.1%  |      |       |      |
| PCB-123             | 1.68              | 6.72  |         | E    |                 | 0.8                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.541             | 2.164 | 0.461   | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      |       | 3.2%  |       |      |       |      |
| PCB-156             | 0.532             | 2.128 | 7.52    | B    | <5x*B           | 7.5                      | 3.8   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.4%  | 1.8%  |      |       |      |
| PCB-157             | 0.55              | 2.2   | 1.84    | B    | <5x*B           | 1.8                      | 0.5   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.1%  | 0.2%  |      |       |      |
| PCB-167             | 0.541             | 2.164 | 4       | JB   | <5x*B           | 4.0                      | 2.0   | 0.00001        | 0.0                   | 0.0   |                      |       | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.309             | 1.236 |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| PCB-189             | 0.345             | 1.38  |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.1   | 0.0       | 0.0   | 0.8          | 0.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 620               | Fine   | Field   | SW C-11 | SW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0645            | 0.258  |         | --      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0997            | 0.3988 |         | --      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.131             | 0.524  | 0.202   | B       | <5x*B           | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.7%  |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.11              | 0.44   | 0.295   | B       | <5x*B           | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 11.5%                | 7.1%  |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.141             | 0.564  | 0.416   | B       | <5x*B           | 0.4                      | 0.1   | 1              | 0.4                   | 0.1   | 30.6%                | 14.1% |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.18              | 0.72   | 0.263   | --      |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 1.4%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.168             | 0.672  | 0.411   | BD      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.405             | 1.62   |         | E       | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.228             | 0.912  | 0.503   | B       | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 1.4%  |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.168             | 0.672  | 0.532   | J       |                 | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 1.4%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.141             | 0.564  | 0.708   | --      |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 5.4%                 | 9.9%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.135             | 0.54   | 0.491   | J       |                 | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 1.4%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.707             | 2.828  | 2.91    | --      |                 | 2.9                      | 2.9   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 4.1%  |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 1.13              | 4.52   |         | --      |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.221             | 0.884  | 13.3    | --      |                 | 13.3                     | 13.3  | 0.01           | 0.1                   | 0.1   | 10.2%                | 18.8% |      |       |      |       |      |       |
| OCDF                | 0.299             | 1.196  | 6.29    | --      |                 | 6.3                      | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |       |
| OCDD                | 0.261             | 1.044  | 88.5    | --      |                 | 88.5                     | 88.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.2%  |      |       |      |       |      |       |
| PCB-77              | 0.165             | 0.66   | 8.42    | B       | <5x*B           | 8.4                      | 4.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| PCB-81              | 0.224             | 0.896  | 0.844   | B       | <5x*B           | 0.8                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-105             | 0.536             | 2.144  | 50.4    | B       | <5x*B           | 50.4                     | 25.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |       |
| PCB-114             | 0.561             | 2.244  | 3.02    | --      |                 | 3.0                      | 3.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |       |
| PCB-118             | 0.63              | 2.52   | 124     | --      |                 | 124.0                    | 124.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.7%  |      |       |      |       |      |       |
| PCB-123             | 0.716             | 2.864  | 2.83    | --      |                 | 2.8                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-126             | 0.402             | 1.608  | 2.41    | --      |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 18.4%                | 33.9% |      |       |      |       |      |       |
| PCB-156             | 0.403             | 1.612  | 18.4    | --      |                 | 18.4                     | 18.4  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.3%  |      |       |      |       |      |       |
| PCB-157             | 0.417             | 1.668  | 5.53    | --      |                 | 5.5                      | 5.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |      |       |      |       |      |       |
| PCB-167             | 0.41              | 1.64   | 10.9    | --      |                 | 10.9                     | 10.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-169             | 0.256             | 1.024  | 0.595   | --      |                 | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |      |       |      |       |      |       |
| PCB-189             | 0.171             | 0.684  | 2.7     | --      |                 | 2.7                      | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.4   | 0.2       | 0.2   | 1.3          | 0.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 922               | Fine   | Field   | SW C-2 | SW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.205             | 0.82   |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0853            | 0.3412 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.775             | 3.1    |         | E      |                 | 0.4                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 1.05              | 4.2    |         | E      |                 | 0.5                      |       | 0.5            | 0.3                   |       | 8.5%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.363             | 1.452  |         | E      |                 | 0.2                      |       | 1              | 0.2                   |       | 6.8%                 |       |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.203             | 0.812  | 0.999   | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 3.4%                 | 4.5%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.207             | 0.828  | 5.15    | --     |                 | 5.2                      | 5.2   | 0.1            | 0.5                   | 0.5   | 17.6%                | 23.2% |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 1.13              | 4.52   |         | E      |                 | 0.6                      |       | 0.1            | 0.1                   |       | 2.0%                 |       |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.473             | 1.892  | 0.875   | B      | <5x*B           | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 0.9%  |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.161             | 0.644  | 0.693   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 3.1%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.145             | 0.58   | 1.54    | --     |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 5.1%                 | 6.7%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.166             | 0.664  | 0.824   | J      |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 2.7%                 | 1.8%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 23.7              | 94.8   |         | D      | <5x*B           | 5.9                      |       | 0.01           | 0.1                   |       | 2.0%                 |       |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.711             | 2.844  |         | --     |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.45              | 1.8    | 34      | --     |                 | 34.0                     | 34.0  | 0.01           | 0.3                   | 0.3   | 11.5%                | 15.2% |      |       |      |       |      |       |
| OCDF                | 2.01              | 8.04   | 20.4    | I      |                 | 20.4                     | 20.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| OCDD                | 2.77              | 11.08  | 277     | I      |                 | 277.0                    | 277.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.2%  |      |       |      |       |      |       |
| PCB-77              | 0.296             | 1.184  | 23.2    | B      | <5x*B           | 23.2                     | 11.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| PCB-81              | 0.25              | 1      | 1.4     | B      | <5x*B           | 1.4                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-105             | 0.508             | 2.032  | 233     | --     |                 | 233.0                    | 233.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |      |       |      |       |      |       |
| PCB-114             | 0.502             | 2.008  | 11      | --     |                 | 11.0                     | 11.0  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |       |
| PCB-118             | 0.412             | 1.648  | 420     | --     |                 | 420.0                    | 420.0 | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.9%  |      |       |      |       |      |       |
| PCB-123             | 0.468             | 1.872  |         | --     |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| PCB-126             | 0.882             | 3.528  | 8.11    | --     |                 | 8.1                      | 8.1   | 0.1            | 0.8                   | 0.8   | 27.4%                | 36.2% |      |       |      |       |      |       |
| PCB-156             | 0.207             | 0.828  | 132     | --     |                 | 132.0                    | 132.0 | 0.0005         | 0.1                   | 0.1   | 2.2%                 | 2.9%  |      |       |      |       |      |       |
| PCB-157             | 0.209             | 0.836  | 26.1    | --     |                 | 26.1                     | 26.1  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |       |      |       |
| PCB-167             | 0.198             | 0.792  | 63.5    | J      |                 | 63.5                     | 31.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-169             | 0.0642            | 0.2568 | 1.01    | BI     | <5x*B           | 1.0                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |       |
| PCB-189             | 0.136             | 0.544  | 23.6    | --     |                 | 23.6                     | 23.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.1               | 1.2   | 0.9       | 0.9   | 3.0          | 2.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 844               | Fine   | Field   | SW C-3 | SW              | Commercial               |        |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.321             | 1.284  |         | E      |                 | 0.2                      |        | 0.1            | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.047             | 0.188  | 0.357   | --     |                 | 0.4                      | 0.4    | 1              | 0.4                   | 0.4   | 1.6%                 | 2.3%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0618            | 0.2472 | 1.2     | --     |                 | 1.2                      | 1.2    | 0.05           | 0.1                   | 0.1   | 0.2%                 | 0.4%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0481            | 0.1924 | 2.6     | --     |                 | 2.6                      | 2.6    | 0.5            | 1.3                   | 1.3   | 5.1%                 | 7.6%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 4.13              | 16.52  |         | E      |                 | 2.1                      |        | 1              | 2.1                   |       | 8.3%                 |       |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.379             | 1.516  | 10.2    | --     |                 | 10.2                     | 10.2   | 0.1            | 1.0                   | 1.0   | 4.0%                 | 6.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.337             | 1.348  | 5.88    | --     |                 | 5.9                      | 5.9    | 0.1            | 0.6                   | 0.6   | 2.3%                 | 3.5%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.38              | 1.52   | 8.31    | --     |                 | 8.3                      | 8.3    | 0.1            | 0.8                   | 0.8   | 3.3%                 | 4.9%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.444             | 1.776  | 2.83    | --     |                 | 2.8                      | 2.8    | 0.1            | 0.3                   | 0.3   | 1.1%                 | 1.6%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0561            | 0.2244 | 12.1    | --     |                 | 12.1                     | 12.1   | 0.1            | 1.2                   | 1.2   | 4.8%                 | 7.1%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0497            | 0.1988 | 28.4    | --     |                 | 28.4                     | 28.4   | 0.1            | 2.8                   | 2.8   | 11.2%                | 16.6% |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0545            | 0.218  | 22.6    | J      |                 | 22.6                     | 11.3   | 0.1            | 2.3                   | 1.1   | 8.9%                 | 6.6%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.257             | 1.028  | 189     | --     |                 | 189.0                    | 189.0  | 0.01           | 1.9                   | 1.9   | 7.4%                 | 11.1% |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.371             | 1.484  | 13.6    | --     |                 | 13.6                     | 13.6   | 0.01           | 0.1                   | 0.1   | 0.5%                 | 0.8%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0345            | 0.138  | 967     | CJ     |                 | 967.0                    | 483.5  | 0.01           | 9.7                   | 4.8   | 38.1%                | 28.3% |      |       |      |       |      |
| OCDF                | 0.0431            | 0.1724 | 604     | --     |                 | 604.0                    | 604.0  | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.4%  |      |       |      |       |      |
| OCDD                | 0.0422            | 0.1688 | 4250    | SJ     |                 | 4250.0                   | 2125.0 | 0.0001         | 0.4                   | 0.2   | 1.7%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 0.0744            | 0.2976 | 15.4    | B      | <5x*B           | 15.4                     | 7.7    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0948            | 0.3792 | 0.981   | B      | <5x*B           | 1.0                      | 0.5    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 1.23              | 4.92   | 63.4    | B      | <5x*B           | 63.4                     | 31.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-114             | 1.22              | 4.88   | 2.85    | B      | <5x*B           | 2.9                      | 0.7    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 0.95              | 3.8    | 119     | B      | <5x*B           | 119.0                    | 59.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-123             | 1.07              | 4.28   | 2.68    | BJ     | <5x*B           | 2.7                      | 0.7    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.216             | 0.864  | 2.6     | --     |                 | 2.6                      | 2.6    | 0.1            | 0.3                   | 0.3   | 1.0%                 | 1.5%  |      |       |      |       |      |
| PCB-156             | 0.252             | 1.008  | 23.4    | B      | <5x*B           | 23.4                     | 11.7   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-157             | 0.265             | 1.06   | 4.5     | B      | <5x*B           | 4.5                      | 2.3    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-167             | 0.245             | 0.98   | 13.1    | --     |                 | 13.1                     | 13.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.969             | 3.876  |         | E      |                 | 0.5                      |        | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-189             | 3.87              | 15.48  |         | E      |                 | 1.9                      |        | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 25.1              | 16.7  | 0.3       | 0.3   | 25.4         | 17.0  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 220       | Fine              | Field  | SW C-4  | SW   | Commercial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0399            | 0.1596 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0161            | 0.0644 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0268            | 0.1072 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.025             | 0.1    |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.322             | 1.288  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       |                      |       | 18.0% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.294             | 1.176  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.9%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.25              | 1      |         | EI   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.9%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.113             | 0.452  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.9%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.318             | 1.272  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 1.8%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0567            | 0.2268 | 0.827   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   |                      | 7.2%  | 10.1% |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.047             | 0.188  | 1.6     | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   |                      | 14.4% | 20.1% |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.64              | 2.56   |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      | 2.7%  |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.149             | 0.596  | 5.06    | I    |                 | 5.1                      | 5.1   | 0.01           | 0.1                   | 0.1   |                      | 4.6%  | 6.4%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.32              | 1.28   | 0.743   | --   |                 | 0.7                      | 0.4   | 0.01           | 0.0                   | 0.0   |                      | 0.6%  | 0.5%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0646            | 0.2584 | 45.4    | --   |                 | 45.4                     | 45.4  | 0.01           | 0.5                   | 0.5   |                      | 40.8% | 57.1% |       |      |       |      |
| OCDF                | 0.104             | 0.416  | 21.4    | --   |                 | 21.4                     | 21.4  | 0.0001         | 0.0                   | 0.0   |                      | 0.2%  | 0.3%  |       |      |       |      |
| OCDD                | 0.178             | 0.712  | 411     | --   |                 | 411.0                    | 411.0 | 0.0001         | 0.0                   | 0.0   |                      | 3.7%  | 5.2%  |       |      |       |      |
| PCB-77              | 0.0672            | 0.2688 | 3.72    | B    | <5x*B           | 3.7                      | 1.9   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-81              | 0.0859            | 0.3436 | 0.472   | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.225             | 0.9    | 14.4    | B    | <5x*B           | 14.4                     | 7.2   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  | 0.1%  |       |      |       |      |
| PCB-114             | 0.508             | 2.032  |         | E    | <5x*B           | 0.3                      |       | 0.0005         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-118             | 0.211             | 0.844  | 33.6    | B    | <5x*B           | 33.6                     | 16.8  | 0.0001         | 0.0                   | 0.0   |                      | 0.3%  | 0.2%  |       |      |       |      |
| PCB-123             | 0.665             | 2.66   |         | E    | <5x*B           | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-126             | 0.585             | 2.34   |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      | 2.7%  |       |       |      |       |      |
| PCB-156             | 7.23              | 28.92  |         | E    | <5x*B           | 3.6                      |       | 0.0005         | 0.0                   |       |                      | 0.2%  |       |       |      |       |      |
| PCB-157             | 1.5               | 6      |         | E    | <5x*B           | 0.8                      |       | 0.0005         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-167             | 0.256             | 1.024  | 1.42    | B    | <5x*B           | 1.4                      | 0.7   | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.0583            | 0.2332 |         | --   |                 | 0.0                      |       | 0.01           | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-189             | 0.626             | 2.504  |         | E    |                 | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.9   | 0.0       | 0.0   | 1.1          | 0.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 939       | Fine              | Field  | SW C-5  | SW   | Commercial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0527            | 0.2108 | 0.205   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.224             | 0.896  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 2.5%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0276            | 0.1104 | 0.261   | --   |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0291            | 0.1164 | 0.391   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 5.0%                 | 5.5%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0975            | 0.39   | 0.951   | --   |                 | 1.0                      | 1.0   | 1              | 1.0                   | 1.0   | 25.2%                | 27.4% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.18              | 0.72   | 1.07    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 3.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.159             | 0.636  | 1.02    | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 2.7%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.19              | 0.76   | 1.51    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 3.8%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.22              | 0.88   | 0.569   | B    | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 1.5%                 | 0.3%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0697            | 0.2788 | 1.71    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 4.3%                 | 4.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0553            | 0.2212 | 3.25    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 8.3%                 | 9.1%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0639            | 0.2556 | 2.88    | J    |                 | 2.9                      | 1.4   | 0.1            | 0.3                   | 0.1   | 7.3%                 | 3.8%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.214             | 0.856  | 21.1    | --   |                 | 21.1                     | 21.1  | 0.01           | 0.2                   | 0.2   | 5.3%                 | 5.8%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.287             | 1.148  | 1.38    | --   |                 | 1.4                      | 1.4   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0808            | 0.3232 | 81.4    | --   |                 | 81.4                     | 81.4  | 0.01           | 0.8                   | 0.8   | 20.5%                | 22.3% |      |       |      |       |      |
| OCDF                | 0.0567            | 0.2268 | 65.2    | --   |                 | 65.2                     | 65.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| OCDD                | 0.0484            | 0.1936 | 573     | --   |                 | 573.0                    | 573.0 | 0.0001         | 0.1                   | 0.1   | 1.4%                 | 1.6%  |      |       |      |       |      |
| PCB-77              | 0.0294            | 0.1176 | 12.8    | B    | <5x*B           | 12.8                     | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0373            | 0.1492 | 0.673   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.69              | 2.76   | 55.4    | B    | <5x*B           | 55.4                     | 27.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-114             | 0.686             | 2.744  | 2.17    | B    | <5x*B           | 2.2                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 0.687             | 2.748  | 112     | B    | <5x*B           | 112.0                    | 56.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-123             | 0.772             | 3.088  | 4.47    | BJ   | <5x*B           | 4.5                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.131             | 0.524  | 3.01    | --   |                 | 3.0                      | 3.0   | 0.1            | 0.3                   | 0.3   | 7.5%                 | 8.2%  |      |       |      |       |      |
| PCB-156             | 0.365             | 1.46   | 23      | B    | <5x*B           | 23.0                     | 11.5  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-157             | 0.384             | 1.536  | 5.72    | B    | <5x*B           | 5.7                      | 2.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| PCB-167             | 0.354             | 1.416  | 13.5    | --   |                 | 13.5                     | 13.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.631             | 2.524  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| PCB-189             | 0.302             | 1.208  | 3.11    | --   |                 | 3.1                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.7               | 3.3   | 0.3       | 0.3   | 4.0          | 3.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 621               | Fine   | Field | SW C-6  | SW    | Commercial      |                          |         |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.102             | 0.408  | 0.717 | NJ      |       | 0.4             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.2%  |       |  |  |  |
| 2,3,7,8-TCDD        | 0.00387           | 0.0155 | 19.9  | --      |       | 19.9            | 19.9                     | 1       |          | 19.9  | 19.9                  |       | 84.1%                |       | 84.7% |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0134            | 0.0536 | 0.394 | --      |       | 0.4             | 0.4                      | 0.05    |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.012             | 0.048  | 0.726 | --      |       | 0.7             | 0.7                      | 0.5     |          | 0.4   | 0.4                   |       | 1.5%                 |       | 1.5%  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.00262           | 0.0105 | 0.641 | --      |       | 0.6             | 0.6                      | 1       |          | 0.6   | 0.6                   |       | 2.5%                 |       | 2.6%  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0559            | 0.2236 | 0.637 | B       | <5x*B | 0.6             | 0.3                      | 0.1     |          | 0.1   | 0.0                   |       | 0.3%                 |       | 0.1%  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.0487            | 0.1948 | 0.502 | --      |       | 0.5             | 0.5                      | 0.1     |          | 0.1   | 0.1                   |       | 0.2%                 |       | 0.2%  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0608            | 0.2432 | 0.893 | --      |       | 0.9             | 0.9                      | 0.1     |          | 0.1   | 0.1                   |       | 0.4%                 |       | 0.4%  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0699            | 0.2796 | 0.495 | --      |       | 0.5             | 0.5                      | 0.1     |          | 0.1   | 0.1                   |       | 0.2%                 |       | 0.2%  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0265            | 0.106  | 0.849 | --      |       | 0.8             | 0.8                      | 0.1     |          | 0.1   | 0.1                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0231            | 0.0924 | 2.3   | --      |       | 2.3             | 2.3                      | 0.1     |          | 0.2   | 0.2                   |       | 1.0%                 |       | 1.0%  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0248            | 0.0992 | 1.61  | J       |       | 1.6             | 0.8                      | 0.1     |          | 0.2   | 0.1                   |       | 0.7%                 |       | 0.3%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.112             | 0.448  | 18    | --      |       | 18.0            | 18.0                     | 0.01    |          | 0.2   | 0.2                   |       | 0.8%                 |       | 0.8%  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.149             | 0.596  | 0.599 | --      |       | 0.6             | 0.6                      | 0.01    |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0124            | 0.0496 | 76.7  | --      |       | 76.7            | 76.7                     | 0.01    |          | 0.8   | 0.8                   |       | 3.2%                 |       | 3.3%  |  |  |  |
| OCDF                | 0.0784            | 0.3136 | 17.9  | J       |       | 17.9            | 9.0                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| OCDD                | 0.034             | 0.136  | 692   | --      |       | 692.0           | 692.0                    | 0.0001  |          | 0.1   | 0.1                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| PCB-77              | 0.019             | 0.076  | 25.6  | --      |       | 25.6            | 25.6                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-81              | 0.0213            | 0.0852 | 1.68  | --      |       | 1.7             | 1.7                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-105             | 0.897             | 3.588  | 208   | --      |       | 208.0           | 208.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-114             | 0.937             | 3.748  | 9.33  | --      |       | 9.3             | 9.3                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-118             | 0.943             | 3.772  | 391   | --      |       | 391.0           | 391.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |  |  |  |
| PCB-123             | 1.07              | 4.28   | 9.62  | --      |       | 9.6             | 9.6                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-126             | 0.106             | 0.424  | 8.65  | --      |       | 8.7             | 8.7                      | 0.1     |          | 0.9   | 0.9                   |       | 3.7%                 |       | 3.7%  |  |  |  |
| PCB-156             | 0.332             | 1.328  | 82.6  | --      |       | 82.6            | 82.6                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |  |  |  |
| PCB-157             | 0.344             | 1.376  | 20.3  | --      |       | 20.3            | 20.3                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-167             | 0.338             | 1.352  | 41.9  | --      |       | 41.9            | 41.9                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-169             | 0.0722            | 0.2888 | 0.984 | --      |       | 1.0             | 1.0                      | 0.01    |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-189             | 0.272             | 1.088  | 10.4  | --      |       | 10.4            | 10.4                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 22.9              | 22.7  | 0.9       | 0.9   | 23.8         | 23.6  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 294       | Fine              | Field  | SW C-7  | SW   | Commercial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0234            | 0.0936 | 0.276   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0188            | 0.0752 | 0.228   | --   |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 4.0%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0693            | 0.2772 | 0.425   | --   |                 | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0556            | 0.2224 | 0.598   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 6.0%                 | 6.2%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0796            | 0.3184 | 1.42    | --   |                 | 1.4                      | 1.4   | 1              | 1.4                   | 1.4   | 27.8%                | 28.8% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0572            | 0.2288 | 0.999   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 2.0%                 | 2.1%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0516            | 0.2064 | 1.74    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 3.4%                 | 3.5%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0778            | 0.3112 | 1.06    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 2.3%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.11              | 0.44   | 0.626   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.2%                 | 0.6%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0642            | 0.2568 | 1.64    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 3.2%                 | 3.3%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0529            | 0.2116 | 3.73    | --   |                 | 3.7                      | 3.7   | 0.1            | 0.4                   | 0.4   | 7.3%                 | 7.6%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0628            | 0.2512 | 2.43    | J    |                 | 2.4                      | 1.2   | 0.1            | 0.2                   | 0.1   | 4.8%                 | 2.5%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0802            | 0.3208 | 19      | --   |                 | 19.0                     | 19.0  | 0.01           | 0.2                   | 0.2   | 3.8%                 | 3.9%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.988             | 3.952  |         | E    |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.127             | 0.508  | 85.9    | --   |                 | 85.9                     | 85.9  | 0.01           | 0.9                   | 0.9   | 17.0%                | 17.6% |      |       |      |       |      |
| OCDF                | 0.406             | 1.624  | 38.9    | --   |                 | 38.9                     | 38.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.374             | 1.496  | 545     | --   |                 | 545.0                    | 545.0 | 0.0001         | 0.1                   | 0.1   | 1.1%                 | 1.1%  |      |       |      |       |      |
| PCB-77              | 0.166             | 0.664  | 27.5    | --   |                 | 27.5                     | 27.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.149             | 0.596  | 1.06    | B    | <5x*B           | 1.1                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.438             | 1.752  | 158     | --   |                 | 158.0                    | 158.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 0.433             | 1.732  | 9.33    | --   |                 | 9.3                      | 9.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.348             | 1.392  | 329     | --   |                 | 329.0                    | 329.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |      |       |      |       |      |
| PCB-123             | 0.395             | 1.58   |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.373             | 1.492  | 6.7     | --   |                 | 6.7                      | 6.7   | 0.1            | 0.7                   | 0.7   | 13.3%                | 13.8% |      |       |      |       |      |
| PCB-156             | 0.188             | 0.752  | 77.7    | --   |                 | 77.7                     | 77.7  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.8%  |      |       |      |       |      |
| PCB-157             | 0.189             | 0.756  | 23      | --   |                 | 23.0                     | 23.0  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 0.179             | 0.716  | 47.5    | J    |                 | 47.5                     | 23.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.079             | 0.316  | 0.862   | B    | <5x*B           | 0.9                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-189             | 0.298             | 1.192  | 12.6    | --   |                 | 12.6                     | 12.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.4               | 4.2   | 0.7       | 0.7   | 5.1          | 4.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 915               | Fine   | Field   | SW C-8 | SW              | Commercial               |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0365            | 0.146  |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0                  |       | 0.0% |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0403            | 0.1612 | 0.08    | --     |                 | 0.1                      | 0.0   | 1              | 0.1                   | 0.0   | 5.6%                 |       | 0.0% |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.131             | 0.524  |         | --     | <5x*B           | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.111             | 0.444  | 0.15    | B      | <5x*B           | 0.2                      | 0.0   | 0.5            | 0.1                   | 0.0   | 5.6%                 |       | 0.0% |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0443            | 0.1772 | 0.409   | B      | <5x*B           | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 22.4%                | 16.3% |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0893            | 0.3572 | 0.302   | --     |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.7%                 | 1.6%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0776            | 0.3104 | 0.535   | BD     | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.103             | 0.412  | 0.36    | B      | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 0.8%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.124             | 0.496  | 0.321   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.7%                 | 0.8%  |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0677            | 0.2708 | 0.534   | J      |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 2.4%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0556            | 0.2224 | 1.19    | --     |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 6.7%                 | 9.8%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0543            | 0.2172 | 0.687   | J      |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.9%                 | 2.4%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.119             | 0.476  | 7.21    | --     |                 | 7.2                      | 7.2   | 0.01           | 0.1                   | 0.1   | 4.0%                 | 5.9%  |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.21              | 0.84   | 0.413   | --     |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0838            | 0.3352 | 39.3    | --     |                 | 39.3                     | 39.3  | 0.01           | 0.4                   | 0.4   | 22.0%                | 32.0% |      |       |      |       |      |       |
| OCDF                | 0.0879            | 0.3516 | 22.2    | --     |                 | 22.2                     | 22.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |       |
| OCDD                | 0.0881            | 0.3524 | 297     | --     |                 | 297.0                    | 297.0 | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 2.4%  |      |       |      |       |      |       |
| PCB-77              | 0.0912            | 0.3648 | 9.43    | B      | <5x*B           | 9.4                      | 4.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |       |
| PCB-81              | 0.125             | 0.5    | 0.898   | B      | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-105             | 0.274             | 1.096  | 90.6    | --     |                 | 90.6                     | 90.6  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |      |       |      |       |      |       |
| PCB-114             | 2.02              | 8.08   |         | E      |                 | 1.0                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| PCB-118             | 0.291             | 1.164  | 141     | --     |                 | 141.0                    | 141.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.1%  |      |       |      |       |      |       |
| PCB-123             | 0.331             | 1.324  | 6.95    | --     |                 | 7.0                      | 7.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |       |
| PCB-126             | 0.0853            | 0.3412 | 2.63    | --     |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 14.5%                | 21.1% |      |       |      |       |      |       |
| PCB-156             | 0.222             | 0.888  | 34.7    | --     |                 | 34.7                     | 34.7  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.4%  |      |       |      |       |      |       |
| PCB-157             | 0.229             | 0.916  | 9.1     | --     |                 | 9.1                      | 9.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |       |      |       |
| PCB-167             | 0.225             | 0.9    | 17.8    | --     |                 | 17.8                     | 17.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-169             | 0.0978            | 0.3912 | 0.439   | --     |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |       |
| PCB-189             | 0.182             | 0.728  | 4.9     | --     |                 | 4.9                      | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.8   | 0.3       | 0.3   | 1.7          | 1.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 203               | Fine   | Field | SW C-9  | SW    | Commercial      |                          |         |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.0424            | 0.1696 | 0.54  | NJ      |       | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.4%  |       |  |  |  |
| 2,3,7,8-TCDD        | 0.0209            | 0.0836 | 1.68  | --      |       | 1.7             | 1.7                      | 1       |          | 1.7   | 1.7                   |       | 23.5%                |       | 24.7% |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0277            | 0.1108 | 0.522 | --      |       | 0.5             | 0.5                      | 0.05    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.4%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0303            | 0.1212 | 0.876 | --      |       | 0.9             | 0.9                      | 0.5     |          | 0.5   | 0.5                   |       | 6.2%                 |       | 6.5%  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0613            | 0.2452 | 0.784 | --      |       | 0.8             | 0.8                      | 1       |          | 0.8   | 0.8                   |       | 11.1%                |       | 11.6% |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0558            | 0.2232 | 0.719 | --      |       | 0.7             | 0.7                      | 0.1     |          | 0.1   | 0.1                   |       | 1.0%                 |       | 1.0%  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 1.65              | 6.6    |       | D       |       | 0.4             |                          | 0.1     |          | 0.0   |                       |       | 0.6%                 |       |       |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0965            | 0.386  | 0.954 | --      |       | 1.0             | 1.0                      | 0.1     |          | 0.1   | 0.1                   |       | 1.4%                 |       | 1.5%  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.577             | 2.308  |       | E       |       | 0.3             |                          | 0.1     |          | 0.0   |                       |       | 0.4%                 |       |       |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0907            | 0.3628 | 0.814 | --      |       | 0.8             | 0.8                      | 0.1     |          | 0.1   | 0.1                   |       | 1.1%                 |       | 1.2%  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0829            | 0.3316 | 1.49  | --      |       | 1.5             | 1.5                      | 0.1     |          | 0.2   | 0.2                   |       | 2.1%                 |       | 2.2%  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 1.1               | 4.4    |       | EJ      |       | 0.6             |                          | 0.1     |          | 0.1   |                       |       | 0.8%                 |       |       |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 11.8              | 47.2   |       | D       |       | 3.0             |                          | 0.01    |          | 0.0   |                       |       | 0.4%                 |       |       |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.21              | 0.84   |       | --      |       | 0.1             |                          | 0.01    |          | 0.0   |                       |       | 0.0%                 |       |       |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.251             | 1.004  | 35.9  | --      |       | 35.9            | 35.9                     | 0.01    |          | 0.4   | 0.4                   |       | 5.0%                 |       | 5.2%  |  |  |  |
| OCDF                | 0.188             | 0.752  | 19    | IJ      |       | 19.0            | 9.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| OCDD                | 0.238             | 0.952  | 283   | I       |       | 283.0           | 283.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.4%                 |       | 0.4%  |  |  |  |
| PCB-77              | 0.147             | 0.588  | 72.1  | B       | <5x*B | 72.1            | 36.1                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-81              | 0.128             | 0.512  | 3.04  | B       | <5x*B | 3.0             | 1.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-105             | 2.71              | 10.84  | 970   | CJ      |       | 970.0           | 485.0                    | 0.0001  |          | 0.1   | 0.0                   |       | 1.3%                 |       | 0.7%  |  |  |  |
| PCB-114             | 2.66              | 10.64  | 44.2  | --      |       | 44.2            | 44.2                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| PCB-118             | 2.41              | 9.64   | 1910  | CJ      |       | 1910.0          | 955.0                    | 0.0001  |          | 0.2   | 0.1                   |       | 2.6%                 |       | 1.4%  |  |  |  |
| PCB-123             | 2.64              | 10.56  | 37.3  | --      |       | 37.3            | 37.3                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-126             | 0.101             | 0.404  | 26.9  | --      |       | 26.9            | 26.9                     | 0.1     |          | 2.7   | 2.7                   |       | 37.2%                |       | 39.1% |  |  |  |
| PCB-156             | 0.607             | 2.428  | 387   | --      |       | 387.0           | 387.0                    | 0.0005  |          | 0.2   | 0.2                   |       | 2.7%                 |       | 2.8%  |  |  |  |
| PCB-157             | 0.632             | 2.528  | 90.6  | --      |       | 90.6            | 90.6                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.6%                 |       | 0.7%  |  |  |  |
| PCB-167             | 0.559             | 2.236  | 172   | --      |       | 172.0           | 172.0                    | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-169             | 0.192             | 0.768  | 1.93  | --      |       | 1.9             | 1.9                      | 0.01    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |  |  |  |
| PCB-189             | 0.534             | 2.136  | 36.6  | J       |       | 36.6            | 18.3                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.0               | 3.9   | 3.2       | 3.0   | 7.2          | 6.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 354       | Fine              | Field  | NE I-1  | NE   | Industrial      |                          |        |          |                       |       |                      |       |  |  |  |  |  |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0593            | 0.2372 | 0.901   | NJ   |                 | 0.5                      |        | 0.1      | 0.1                   |       | 0.1%                 |       |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0425            | 0.17   | 0.608   | --   |                 | 0.6                      | 0.6    | 1        | 0.6                   | 0.6   | 1.1%                 | 1.4%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.113             | 0.452  | 2.04    | --   |                 | 2.0                      | 2.0    | 0.05     | 0.1                   | 0.1   | 0.2%                 | 0.2%  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.11              | 0.44   | 5.62    | --   |                 | 5.6                      | 5.6    | 0.5      | 2.8                   | 2.8   | 4.9%                 | 6.5%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.122             | 0.488  | 7.11    | --   |                 | 7.1                      | 7.1    | 1        | 7.1                   | 7.1   | 12.5%                | 16.4% |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.488             | 1.952  | 17.7    | --   |                 | 17.7                     | 17.7   | 0.1      | 1.8                   | 1.8   | 3.1%                 | 4.1%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 27.3              | 109.2  |         | D    |                 | 6.8                      |        | 0.1      | 0.7                   |       | 1.2%                 |       |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 2.01              | 8.04   | 19.7    | I    |                 | 19.7                     | 19.7   | 0.1      | 2.0                   | 2.0   | 3.5%                 | 4.6%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.687             | 2.748  | 3.53    | --   |                 | 3.5                      | 3.5    | 0.1      | 0.4                   | 0.4   | 0.6%                 | 0.8%  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0969            | 0.3876 | 21.5    | --   |                 | 21.5                     | 21.5   | 0.1      | 2.2                   | 2.2   | 3.8%                 | 5.0%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0782            | 0.3128 | 68.7    | --   |                 | 68.7                     | 68.7   | 0.1      | 6.9                   | 6.9   | 12.1%                | 15.9% |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0947            | 0.3788 | 39      | --   |                 | 39.0                     | 39.0   | 0.1      | 3.9                   | 3.9   | 6.9%                 | 9.0%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.459             | 1.836  | 429     | J    |                 | 429.0                    | 214.5  | 0.01     | 4.3                   | 2.1   | 7.5%                 | 5.0%  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.944             | 3.776  | 27      | --   |                 | 27.0                     | 27.0   | 0.01     | 0.3                   | 0.3   | 0.5%                 | 0.6%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0876            | 0.3504 | 2060    | CJ   |                 | 2060.0                   | 1030.0 | 0.01     | 20.6                  | 10.3  | 36.2%                | 23.8% |  |  |  |  |  |
| OCDF                | 0.158             | 0.632  | 1270    | J    |                 | 1270.0                   | 635.0  | 0.0001   | 0.1                   | 0.1   | 0.2%                 | 0.1%  |  |  |  |  |  |
| OCDD                | 0.139             | 0.556  | 7210    | SJ   |                 | 7210.0                   | 3605.0 | 0.0001   | 0.7                   | 0.4   | 1.3%                 | 0.8%  |  |  |  |  |  |
| PCB-77              | 20.1              | 80.4   | 86.3    | --   |                 | 86.3                     | 86.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-81              | 21.4              | 85.6   |         | --   |                 | 10.7                     |        | 0.0001   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |
| PCB-105             | 16.8              | 67.2   | 514     | --   |                 | 514.0                    | 514.0  | 0.0001   | 0.1                   | 0.1   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-114             | 16.7              | 66.8   | 16.8    | --   |                 | 16.8                     | 8.4    | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-118             | 13.9              | 55.6   | 1060    | CJ   |                 | 1060.0                   | 530.0  | 0.0001   | 0.1                   | 0.1   | 0.2%                 | 0.1%  |  |  |  |  |  |
| PCB-123             | 15.6              | 62.4   |         | --   |                 | 7.8                      |        | 0.0001   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |
| PCB-126             | 1.14              | 4.56   | 21.8    | --   |                 | 21.8                     | 21.8   | 0.1      | 2.2                   | 2.2   | 3.8%                 | 5.0%  |  |  |  |  |  |
| PCB-156             | 1.79              | 7.16   | 227     | --   |                 | 227.0                    | 227.0  | 0.0005   | 0.1                   | 0.1   | 0.2%                 | 0.3%  |  |  |  |  |  |
| PCB-157             | 1.89              | 7.56   | 62.2    | --   |                 | 62.2                     | 62.2   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-167             | 1.74              | 6.96   | 122     | J    |                 | 122.0                    | 61.0   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-169             | 0.251             | 1.004  | 2.3     | --   |                 | 2.3                      | 2.3    | 0.01     | 0.0                   | 0.0   | 0.0%                 | 0.1%  |  |  |  |  |  |
| PCB-189             | 1.2               | 4.8    | 31      | I    |                 | 31.0                     | 31.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 54.6              | 41.0  | 2.5       | 2.5   | 57.1         | 43.5  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 405               | Fine   | Field | NE I-2  | NE    | Industrial      |                          |         |          |       |                       |       |                      |       |      |       |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|------|-------|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full | Quant |  |  |
| 2,3,7,8-TCDF        | 0.0367            | 0.1468 | 0.343 | NJ      |       | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.3%  |      |       |  |  |
| 2,3,7,8-TCDD        | 0.102             | 0.408  |       | E       |       | 0.1             |                          | 1       |          | 0.1   |                       |       |                      | 1.6%  |      |       |  |  |
| 1,2,3,7,8-PeCDF     | 0.504             | 2.016  | 0.371 | B       | <5x*B | 0.3             |                          | 0.05    |          | 0.0   |                       |       |                      | 0.2%  |      |       |  |  |
| 2,3,4,7,8-PeCDF     | 0.408             | 1.632  | 0.564 | --      |       | 0.6             | 0.3                      | 0.5     |          | 0.3   | 0.2                   | 0.2   | 4.9%                 | 3.2%  |      |       |  |  |
| 1,2,3,7,8-PeCDD     | 0.0955            | 0.382  | 1.13  | B       | <5x*B | 1.1             | 0.6                      | 1       |          | 1.1   | 0.6                   | 18.0% | 12.8%                |       |      |       |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.168             | 0.672  | 1.42  | --      |       | 1.4             | 1.4                      | 0.1     |          | 0.1   | 0.1                   | 2.3%  | 3.0%                 |       |      |       |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.143             | 0.572  | 3.02  | D       |       | 1.5             |                          | 0.1     |          | 0.2   |                       |       | 2.5%                 |       |      |       |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.176             | 0.704  | 1.16  | --      |       | 1.2             | 1.2                      | 0.1     |          | 0.1   | 0.1                   | 2.0%  | 2.6%                 |       |      |       |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.172             | 0.688  | 0.498 | B       | <5x*B | 0.5             | 0.1                      | 0.1     |          | 0.1   | 0.0                   | 0.8%  | 0.2%                 |       |      |       |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.133             | 0.532  | 2.67  | J       |       | 2.7             | 1.3                      | 0.1     |          | 0.3   | 0.1                   | 4.4%  | 2.8%                 |       |      |       |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.108             | 0.432  | 5.98  | --      |       | 6.0             | 6.0                      | 0.1     |          | 0.6   | 0.6                   | 9.8%  | 12.8%                |       |      |       |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.106             | 0.424  | 3.61  | J       |       | 3.6             | 1.8                      | 0.1     |          | 0.4   | 0.2                   | 5.9%  | 3.8%                 |       |      |       |  |  |
| 1,2,3,4,6,7,8-HpCDF | 41                | 164    |       | D       | <5x*B | 10.3            |                          | 0.01    |          | 0.1   |                       |       | 1.7%                 |       |      |       |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.73              | 2.92   | 1.68  | --      |       | 1.7             | 0.8                      | 0.01    |          | 0.0   | 0.0                   | 0.3%  | 0.2%                 |       |      |       |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.644             | 2.576  | 198   | --      |       | 198.0           | 198.0                    | 0.01    |          | 2.0   | 2.0                   | 32.4% | 42.2%                |       |      |       |  |  |
| OCDF                | 0.112             | 0.448  | 132   | --      |       | 132.0           | 132.0                    | 0.0001  |          | 0.0   | 0.0                   | 0.2%  | 0.3%                 |       |      |       |  |  |
| OCDD                | 0.0878            | 0.3512 | 1870  | --      |       | 1870.0          | 1870.0                   | 0.0001  |          | 0.2   | 0.2                   | 3.1%  | 4.0%                 |       |      |       |  |  |
| PCB-77              | 0.167             | 0.668  | 31.2  | --      |       | 31.2            | 31.2                     | 0.0001  |          | 0.0   | 0.0                   | 0.1%  | 0.1%                 |       |      |       |  |  |
| PCB-81              | 0.176             | 0.704  | 1.36  | B       | <5x*B | 1.4             | 0.7                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  | 0.0%                 |       |      |       |  |  |
| PCB-105             | 0.277             | 1.108  | 98.5  | --      |       | 98.5            | 98.5                     | 0.0001  |          | 0.0   | 0.0                   | 0.2%  | 0.2%                 |       |      |       |  |  |
| PCB-114             | 0.29              | 1.16   | 4.19  | --      |       | 4.2             | 4.2                      | 0.0005  |          | 0.0   | 0.0                   | 0.0%  | 0.0%                 |       |      |       |  |  |
| PCB-118             | 0.294             | 1.176  | 209   | --      |       | 209.0           | 209.0                    | 0.0001  |          | 0.0   | 0.0                   | 0.3%  | 0.4%                 |       |      |       |  |  |
| PCB-123             | 0.334             | 1.336  | 3.68  | --      |       | 3.7             | 3.7                      | 0.0001  |          | 0.0   | 0.0                   | 0.0%  | 0.0%                 |       |      |       |  |  |
| PCB-126             | 0.125             | 0.5    | 5.03  | --      |       | 5.0             | 5.0                      | 0.1     |          | 0.5   | 0.5                   | 8.2%  | 10.7%                |       |      |       |  |  |
| PCB-156             | 0.184             | 0.736  | 59.6  | --      |       | 59.6            | 59.6                     | 0.0005  |          | 0.0   | 0.0                   | 0.5%  | 0.6%                 |       |      |       |  |  |
| PCB-157             | 0.19              | 0.76   | 11.2  | --      |       | 11.2            | 11.2                     | 0.0005  |          | 0.0   | 0.0                   | 0.1%  | 0.1%                 |       |      |       |  |  |
| PCB-167             | 0.187             | 0.748  | 29.8  | --      |       | 29.8            | 29.8                     | 0.00001 |          | 0.0   | 0.0                   | 0.0%  | 0.0%                 |       |      |       |  |  |
| PCB-169             | 0.198             | 0.792  | 0.517 | --      |       | 0.5             | 0.3                      | 0.01    |          | 0.0   | 0.0                   | 0.1%  | 0.1%                 |       |      |       |  |  |
| PCB-189             | 0.166             | 0.664  | 10.3  | --      |       | 10.3            | 10.3                     | 0.0001  |          | 0.0   | 0.0                   | 0.0%  | 0.0%                 |       |      |       |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.6               | 4.1   | 0.5       | 0.5   | 6.1          | 4.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 408               | Fine   | Field   | NE I-3 | NE              | Industrial               | Sample ID changes from 405/8 to 408 (NE I-3) based on field notes. |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0137            | 0.0548 | 0.354   | NJ     |                 | 0.2                      |  | 0.1            | 0.0                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.00183           | 0.0073 | 0.0942  | --     |                 | 0.1                      | 0.1  | 1              | 0.1                   | 0.1   | 1.6%                 | 1.8%  |
| 1,2,3,7,8-PeCDF     | 0.0159            | 0.0636 | 0.445   | --     |                 | 0.4                      | 0.4  | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.0142            | 0.0568 | 0.529   | --     |                 | 0.5                      | 0.5  | 0.5            | 0.3                   | 0.3   | 4.0%                 | 4.4%  |
| 1,2,3,7,8-PeCDD     | 0.015             | 0.06   | 1.18    | B      | <5x*B           | 1.2                      | 0.6  | 1              | 1.2                   | 0.6   | 19.1%                | 10.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0599            | 0.2396 | 1.25    | --     |                 | 1.3                      | 1.3  | 0.1            | 0.1                   | 0.1   | 2.1%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.051             | 0.204  | 0.904   | --     |                 | 0.9                      | 0.9  | 0.1            | 0.1                   | 0.1   | 1.4%                 | 1.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.0597            | 0.2388 | --      |        |                 | 0.0                      |  | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0772            | 0.3088 | 0.547   | --     |                 | 0.5                      | 0.5  | 0.1            | 0.1                   | 0.1   | 0.8%                 | 0.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.0787            | 0.3148 | 2.72    | --     |                 | 2.7                      | 2.7  | 0.1            | 0.3                   | 0.3   | 4.3%                 | 4.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0714            | 0.2856 | 6.54    | --     |                 | 6.5                      | 6.5  | 0.1            | 0.7                   | 0.7   | 10.3%                | 11.5% |
| 1,2,3,7,8,9-HxCDD   | 0.0755            | 0.302  | 3.66    | --     |                 | 3.7                      | 3.7  | 0.1            | 0.4                   | 0.4   | 5.9%                 | 6.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0645            | 0.258  | 28.2    | --     |                 | 28.2                     | 28.2   | 0.01           | 0.3                   | 0.3   | 4.5%                 | 5.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0902            | 0.3608 | 1.87    | --     |                 | 1.9                      | 1.9  | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0133            | 0.0532 | 208     | --     |                 | 208.0                    | 208.0  | 0.01           | 2.1                   | 2.1   | 33.1%                | 36.7% |
| OCDF                | 0.0399            | 0.1596 | 125     | --     |                 | 125.0                    | 125.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0406            | 0.1624 | 1740    | --     |                 | 1740.0                   | 1740.0   | 0.0001         | 0.2                   | 0.2   | 2.8%                 | 3.1%  |
| PCB-77              | 0.0227            | 0.0908 | 33.8    | --     |                 | 33.8                     | 33.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.029             | 0.116  | 1.2     | B      | <5x*B           | 1.2                      | 0.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.478             | 1.912  | 99.4    | --     |                 | 99.4                     | 99.4   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 0.499             | 1.996  | 3.51    | B      | <5x*B           | 3.5                      | 1.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.484             | 1.936  | 177     | --     |                 | 177.0                    | 177.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-123             | 0.55              | 2.2    | 3.9     | J      |                 | 3.9                      | 2.0  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.167             | 0.668  | 5.07    | --     |                 | 5.1                      | 5.1  | 0.1            | 0.5                   | 0.5   | 8.1%                 | 9.0%  |
| PCB-156             | 0.293             | 1.172  | 35.7    | --     |                 | 35.7                     | 35.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-157             | 0.303             | 1.212  | 9.48    | --     |                 | 9.5                      | 9.5  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.298             | 1.192  | 21.1    | --     |                 | 21.1                     | 21.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.115             | 0.46   | 0.676   | --     |                 | 0.7                      | 0.7  | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.221             | 0.884  | 6.21    | --     |                 | 6.2                      | 6.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.9               | 5.3   | 0.5       | 0.5   | 6.4          | 5.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 852               | Fine   | Field   | NE I-4 | NE              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.191             | 0.764  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0105            | 0.042  | 0.26    | --     |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 12.2%                | 14.3% |
| 1,2,3,7,8-PeCDF     | 0.0282            | 0.1128 | 0.361   | --     |                 | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| 2,3,4,7,8-PeCDF     | 0.0239            | 0.0956 | 0.566   | --     |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 12.2%                | 14.3% |
| 1,2,3,7,8-PeCDD     | 0.522             | 2.088  |         | E      | <5x*B           | 0.3                      |       | 1              | 0.3                   |       | 12.2%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0763            | 0.3052 | 0.588   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0666            | 0.2664 | 0.494   | B      | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.0%                 | 1.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0723            | 0.2892 | 0.586   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.452             | 1.808  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0362            | 0.1448 | 1.15    | --     |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0443            | 0.1772 | 1.41    | --     |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 6.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0408            | 0.1632 | 0.93    | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 4.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0621            | 0.2484 | 5.76    | --     |                 | 5.8                      | 5.8   | 0.01           | 0.1                   | 0.1   | 2.4%                 | 2.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0902            | 0.3608 | 0.558   | --     |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0169            | 0.0676 | 30.6    | --     |                 | 30.6                     | 30.6  | 0.01           | 0.3                   | 0.3   | 12.4%                | 14.6% |
| OCDF                | 0.0277            | 0.1108 | 13.8    | --     |                 | 13.8                     | 13.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0508            | 0.2032 | 266     | --     |                 | 266.0                    | 266.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.3%  |
| PCB-77              | 0.0274            | 0.1096 | 21.3    | --     |                 | 21.3                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0307            | 0.1228 | 0.891   | B      | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.379             | 1.516  | 128     | --     |                 | 128.0                    | 128.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.396             | 1.584  | 5.47    | --     |                 | 5.5                      | 5.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.399             | 1.596  | 263     | --     |                 | 263.0                    | 263.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.3%  |
| PCB-123             | 0.453             | 1.812  | 5.41    | J      |                 | 5.4                      | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.106             | 0.424  | 5.12    | --     |                 | 5.1                      | 5.1   | 0.1            | 0.5                   | 0.5   | 20.7%                | 24.3% |
| PCB-156             | 0.217             | 0.868  | 48.6    | --     |                 | 48.6                     | 48.6  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.2%  |
| PCB-157             | 0.224             | 0.896  | 13.4    | --     |                 | 13.4                     | 13.4  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.221             | 0.884  | 26      | --     |                 | 26.0                     | 26.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0667            | 0.2668 | 0.659   | --     |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.152             | 0.608  | 4.82    | --     |                 | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.5   | 0.5       | 0.5   | 2.4          | 2.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 608               | Fine   | Field | NE I-6  | NE    | Industrial      |                          |         |          |      |                       |      |                      |      |       |      |       |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|------|-----------------------|------|----------------------|------|-------|------|-------|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |      |       |      |       |  |
|                     | EDL               | QL     | Conc  | Flag    |       |                 | Full                     | Quant   | Human    | Full | Quant                 | Full | Quant                | Full | Quant | Full | Quant |  |
| 2,3,7,8-TCDF        | 0.252             | 1.008  | 16.7  | NJ      |       | 8.4             |                          | 0.1     |          | 0.8  |                       |      |                      | 0.8% |       |      |       |  |
| 2,3,7,8-TCDD        | 0.0269            | 0.1076 | 0.196 | --      |       | 0.2             | 0.2                      | 1       |          | 0.2  | 0.2                   |      | 0.2%                 |      | 0.3%  |      |       |  |
| 1,2,3,7,8-PeCDF     | 0.137             | 0.548  | 3.22  | --      |       | 3.2             | 3.2                      | 0.05    |          | 0.2  | 0.2                   |      | 0.2%                 |      | 0.3%  |      |       |  |
| 2,3,4,7,8-PeCDF     | 0.107             | 0.428  | 15.5  | --      |       | 15.5            | 15.5                     | 0.5     |          | 7.8  | 7.8                   |      | 7.5%                 |      | 13.4% |      |       |  |
| 1,2,3,7,8-PeCDD     | 0.0735            | 0.294  | 1.67  | --      |       | 1.7             | 1.7                      | 1       |          | 1.7  | 1.7                   |      | 1.6%                 |      | 2.9%  |      |       |  |
| 1,2,3,4,7,8-HxCDF   | 0.369             | 1.476  | 6.51  | --      |       | 6.5             | 6.5                      | 0.1     |          | 0.7  | 0.7                   |      | 0.6%                 |      | 1.1%  |      |       |  |
| 1,2,3,6,7,8-HxCDF   | 0.313             | 1.252  | 2.88  | --      |       | 2.9             | 2.9                      | 0.1     |          | 0.3  | 0.3                   |      | 0.3%                 |      | 0.5%  |      |       |  |
| 2,3,4,6,7,8-HxCDF   | 0.385             | 1.54   | 8.08  | --      |       | 8.1             | 8.1                      | 0.1     |          | 0.8  | 0.8                   |      | 0.8%                 |      | 1.4%  |      |       |  |
| 1,2,3,7,8,9-HxCDF   | 0.402             | 1.608  | 1.37  | B       | <5x*B | 1.4             | 0.3                      | 0.1     |          | 0.1  | 0.0                   |      | 0.1%                 |      | 0.1%  |      |       |  |
| 1,2,3,4,7,8-HxCDD   | 0.095             | 0.38   | 1.98  | --      |       | 2.0             | 2.0                      | 0.1     |          | 0.2  | 0.2                   |      | 0.2%                 |      | 0.3%  |      |       |  |
| 1,2,3,6,7,8-HxCDD   | 0.0963            | 0.3852 | 4.66  | --      |       | 4.7             | 4.7                      | 0.1     |          | 0.5  | 0.5                   |      | 0.5%                 |      | 0.8%  |      |       |  |
| 1,2,3,7,8,9-HxCDD   | 0.0999            | 0.3996 | 3.91  | J       |       | 3.9             | 2.0                      | 0.1     |          | 0.4  | 0.2                   |      | 0.4%                 |      | 0.3%  |      |       |  |
| 1,2,3,4,6,7,8-HpCDF | 0.322             | 1.288  | 25    | --      |       | 25.0            | 25.0                     | 0.01    |          | 0.3  | 0.3                   |      | 0.2%                 |      | 0.4%  |      |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.348             | 1.392  | 2.18  | --      |       | 2.2             | 2.2                      | 0.01    |          | 0.0  | 0.0                   |      | 0.0%                 |      | 0.0%  |      |       |  |
| 1,2,3,4,6,7,8-HpCDD | 0.036             | 0.144  | 102   | --      |       | 102.0           | 102.0                    | 0.01    |          | 1.0  | 1.0                   |      | 1.0%                 |      | 1.8%  |      |       |  |
| OCDF                | 0.0474            | 0.1896 | 39.7  | J       |       | 39.7            | 19.9                     | 0.0001  |          | 0.0  | 0.0                   |      | 0.0%                 |      | 0.0%  |      |       |  |
| OCDD                | 0.0166            | 0.0664 | 855   | --      |       | 855.0           | 855.0                    | 0.0001  |          | 0.1  | 0.1                   |      | 0.1%                 |      | 0.1%  |      |       |  |
| PCB-77              | 1.03              | 4.12   | 1580  | SJ      |       | 1580.0          | 790.0                    | 0.0001  |          | 0.2  | 0.1                   |      | 0.2%                 |      | 0.1%  |      |       |  |
| PCB-81              | 1.12              | 4.48   | 64.5  | --      |       | 64.5            | 64.5                     | 0.0001  |          | 0.0  | 0.0                   |      | 0.0%                 |      | 0.0%  |      |       |  |
| PCB-105             | 541               | 2164   | 22200 | SJ      |       | 22200.0         | 11100.0                  | 0.0001  |          | 2.2  | 1.1                   |      | 2.2%                 |      | 1.9%  |      |       |  |
| PCB-114             | 565               | 2260   | 740   | JC      |       | 740.0           | 185.0                    | 0.0005  |          | 0.4  | 0.1                   |      | 0.4%                 |      | 0.2%  |      |       |  |
| PCB-118             | 662               | 2648   | 30300 | SJ      |       | 30300.0         | 15150.0                  | 0.0001  |          | 3.0  | 1.5                   |      | 2.9%                 |      | 2.6%  |      |       |  |
| PCB-123             | 752               | 3008   | 1800  | CJ      |       | 1800.0          | 450.0                    | 0.0001  |          | 0.2  | 0.0                   |      | 0.2%                 |      | 0.1%  |      |       |  |
| PCB-126             | 23.2              | 92.8   | 674   | CJ      |       | 674.0           | 337.0                    | 0.1     |          | 67.4 | 33.7                  |      | 65.4%                |      | 58.1% |      |       |  |
| PCB-156             | 7.32              | 29.28  | 22400 | CJ      |       | 22400.0         | 11200.0                  | 0.0005  |          | 11.2 | 5.6                   |      | 10.9%                |      | 9.6%  |      |       |  |
| PCB-157             | 7.57              | 30.28  | 4830  | CJ      |       | 4830.0          | 2415.0                   | 0.0005  |          | 2.4  | 1.2                   |      | 2.3%                 |      | 2.1%  |      |       |  |
| PCB-167             | 7.45              | 29.8   | 13600 | CJ      |       | 13600.0         | 6800.0                   | 0.00001 |          | 0.1  | 0.1                   |      | 0.1%                 |      | 0.1%  |      |       |  |
| PCB-169             | 0.452             | 1.808  | 57.6  | --      |       | 57.6            | 57.6                     | 0.01    |          | 0.6  | 0.6                   |      | 0.6%                 |      | 1.0%  |      |       |  |
| PCB-189             | 3.74              | 14.96  | 4100  | CJ      |       | 4100.0          | 2050.0                   | 0.0001  |          | 0.4  | 0.2                   |      | 0.4%                 |      | 0.4%  |      |       |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 15.1              | 14.0  | 88.1      | 44.2  | 103.2        | 58.2  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 126               | Fine   | Field | NE I-7  | NE    | Industrial      |                          |         |          |       |                       |       |                      |       |       |       |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant |  |  |
| 2,3,7,8-TCDF        | 0.267             | 1.068  | 0.914 | NJ      |       | 0.5             |                          | 0.1     |          | 0.1   |                       |       |                      | 0.4%  |       |       |  |  |
| 2,3,7,8-TCDD        | 0.0611            | 0.2444 | 0.367 | --      |       | 0.4             | 0.4                      | 1       |          | 0.4   | 0.4                   |       | 3.4%                 |       | 3.5%  |       |  |  |
| 1,2,3,7,8-PeCDF     | 0.133             | 0.532  | 0.99  | --      |       | 1.0             | 1.0                      | 0.05    |          | 0.1   | 0.1                   |       | 0.4%                 |       | 0.4%  |       |  |  |
| 2,3,4,7,8-PeCDF     | 0.119             | 0.476  | 3.78  | --      |       | 3.8             | 3.8                      | 0.5     |          | 1.9   | 1.9                   |       | 15.9%                |       | 16.7% |       |  |  |
| 1,2,3,7,8-PeCDD     | 0.0925            | 0.37   | 2.04  | --      |       | 2.0             | 2.0                      | 1       |          | 2.0   | 2.0                   |       | 16.8%                |       | 17.6% |       |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.164             | 0.656  | 4.05  | --      |       | 4.1             | 4.1                      | 0.1     |          | 0.4   | 0.4                   |       | 3.4%                 |       | 3.6%  |       |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.145             | 0.58   | 2.24  | --      |       | 2.2             | 2.2                      | 0.1     |          | 0.2   | 0.2                   |       | 1.8%                 |       | 1.9%  |       |  |  |
| 2,3,4,6,7,8-HxCDF   | 10.3              | 41.2   |       | D       | <5x*B | 2.6             |                          | 0.1     |          | 0.3   |                       |       | 2.2%                 |       |       |       |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.202             | 0.808  | 1.24  | B       | <5x*B | 1.2             | 0.6                      | 0.1     |          | 0.1   | 0.1                   |       | 1.0%                 |       | 0.5%  |       |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.181             | 0.724  | 4.02  | --      |       | 4.0             | 4.0                      | 0.1     |          | 0.4   | 0.4                   |       | 3.4%                 |       | 3.5%  |       |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.161             | 0.644  | 9.4   | --      |       | 9.4             | 9.4                      | 0.1     |          | 0.9   | 0.9                   |       | 7.9%                 |       | 8.3%  |       |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.171             | 0.684  | 5.05  | --      |       | 5.1             | 5.1                      | 0.1     |          | 0.5   | 0.5                   |       | 4.3%                 |       | 4.5%  |       |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.206             | 0.824  | 39.3  | --      |       | 39.3            | 39.3                     | 0.01    |          | 0.4   | 0.4                   |       | 3.3%                 |       | 3.4%  |       |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.349             | 1.396  | 3.55  | --      |       | 3.6             | 3.6                      | 0.01    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |       |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0857            | 0.3428 | 255   | --      |       | 255.0           | 255.0                    | 0.01    |          | 2.6   | 2.6                   |       | 21.4%                |       | 22.4% |       |  |  |
| OCDF                | 0.0849            | 0.3396 | 139   | J       |       | 139.0           | 69.5                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |  |  |
| OCDD                | 0.15              | 0.6    | 2420  | CJ      |       | 2420.0          | 1210.0                   | 0.0001  |          | 0.2   | 0.1                   |       | 2.0%                 |       | 1.1%  |       |  |  |
| PCB-77              | 0.0357            | 0.1428 | 51.5  | --      |       | 51.5            | 51.5                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |
| PCB-81              | 0.0412            | 0.1648 | 1.71  | B       | <5x*B | 1.7             | 0.9                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |
| PCB-105             | 6.71              | 26.84  | 300   | --      |       | 300.0           | 300.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |       |  |  |
| PCB-114             | 7.01              | 28.04  | 9.79  | --      |       | 9.8             | 4.9                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |
| PCB-118             | 7.14              | 28.56  | 707   | J       |       | 707.0           | 353.5                    | 0.0001  |          | 0.1   | 0.0                   |       | 0.6%                 |       | 0.3%  |       |  |  |
| PCB-123             | 8.11              | 32.44  | 15.8  | J       |       | 15.8            | 4.0                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |
| PCB-126             | 0.345             | 1.38   | 11.9  | --      |       | 11.9            | 11.9                     | 0.1     |          | 1.2   | 1.2                   |       | 10.0%                |       | 10.4% |       |  |  |
| PCB-156             | 0.902             | 3.608  | 199   | --      |       | 199.0           | 199.0                    | 0.0005  |          | 0.1   | 0.1                   |       | 0.8%                 |       | 0.9%  |       |  |  |
| PCB-157             | 0.932             | 3.728  | 51.9  | --      |       | 51.9            | 51.9                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |       |  |  |
| PCB-167             | 0.917             | 3.668  | 118   | --      |       | 118.0           | 118.0                    | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |
| PCB-169             | 1.53              | 6.12   |       | E       | <5x*B | 0.8             |                          | 0.01    |          | 0.0   |                       |       | 0.1%                 |       |       |       |  |  |
| PCB-189             | 0.515             | 2.06   | 50    | --      |       | 50.0            | 50.0                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 10.5              | 10.0  | 1.4       | 1.3   | 11.9         | 11.3  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 428       | Fine              | Field  | NE I-8  | NE   | Industrial      |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0158            | 0.0632 | 0.354   | NJ   |                 | 0.2                      |       | 0.1      | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0109            | 0.0436 | 0.414   | --   |                 | 0.4                      | 0.4   | 1        | 0.4                   | 0.4   | 10.9%                | 13.6% |
| 1,2,3,7,8-PeCDF     | 0.0279            | 0.1116 | 0.519   | --   |                 | 0.5                      | 0.5   | 0.05     | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.564             | 2.256  |         | E    |                 | 0.3                      |       | 0.5      | 0.2                   |       | 4.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0282            | 0.1128 | 1       | B    | <5x*B           | 1.0                      | 0.5   | 1        | 1.0                   | 0.5   | 27.3%                | 17.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0888            | 0.3552 | 0.762   | --   |                 | 0.8                      | 0.8   | 0.1      | 0.1                   | 0.1   | 2.2%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.0754            | 0.3016 | 0.557   | B    | <5x*B           | 0.6                      | 0.3   | 0.1      | 0.1                   | 0.0   | 1.6%                 | 1.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0914            | 0.3656 | 0.809   | --   |                 | 0.8                      | 0.8   | 0.1      | 0.1                   | 0.1   | 2.2%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.11              | 0.44   | 0.375   | --   |                 | 0.4                      | 0.2   | 0.1      | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0384            | 0.1536 | 1.57    | --   |                 | 1.6                      | 1.6   | 0.1      | 0.2                   | 0.2   | 4.4%                 | 5.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0469            | 0.1876 | 1.92    | --   |                 | 1.9                      | 1.9   | 0.1      | 0.2                   | 0.2   | 5.2%                 | 6.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0431            | 0.1724 | 1.64    | --   |                 | 1.6                      | 1.6   | 0.1      | 0.2                   | 0.2   | 4.4%                 | 5.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0546            | 0.2184 | 7.6     | --   |                 | 7.6                      | 7.6   | 0.01     | 0.1                   | 0.1   | 2.1%                 | 2.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.623             | 2.492  |         | E    |                 | 0.3                      |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.088             | 0.352  | 52.4    | --   |                 | 52.4                     | 52.4  | 0.01     | 0.5                   | 0.5   | 14.3%                | 17.8% |
| OCDF                | 0.0273            | 0.1092 | 19      | --   |                 | 19.0                     | 19.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0316            | 0.1264 | 443     | --   |                 | 443.0                    | 443.0 | 0.0001   | 0.0                   | 0.0   | 1.2%                 | 1.5%  |
| PCB-77              | 0.0273            | 0.1092 | 18.9    | --   |                 | 18.9                     | 18.9  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0314            | 0.1256 | 0.693   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.8               | 7.2    | 125     | --   |                 | 125.0                    | 125.0 | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-114             | 1.88              | 7.52   | 3.92    | B    | <5x*B           | 3.9                      | 1.0   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 1.98              | 7.92   | 228     | --   |                 | 228.0                    | 228.0 | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-123             | 2.25              | 9      | 10.6    | J    |                 | 10.6                     | 5.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.142             | 0.568  | 5.35    | --   |                 | 5.4                      | 5.4   | 0.1      | 0.5                   | 0.5   | 14.7%                | 18.4% |
| PCB-156             | 0.631             | 2.524  | 101     | --   |                 | 101.0                    | 101.0 | 0.0005   | 0.1                   | 0.1   | 1.4%                 | 1.7%  |
| PCB-157             | 0.653             | 2.612  | 32.9    | --   |                 | 32.9                     | 32.9  | 0.0005   | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-167             | 0.642             | 2.568  | 64.4    | --   |                 | 64.4                     | 64.4  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.891             | 3.564  |         | E    |                 | 0.4                      |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.215             | 0.86   | 19.3    | --   |                 | 19.3                     | 19.3  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.1               | 2.3   | 0.6       | 0.6   | 3.7          | 2.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 893       | Fine              | Field  | NW I-1  | NW   | Industrial      |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.053             | 0.212  | 0.107   | NJ   |                 | 0.1                      |       | 0.1      | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.0247            | 0.0988 |         | --   |                 | 0.0                      |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0488            | 0.1952 | 0.129   | --   |                 | 0.1                      | 0.1   | 0.05     | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.0463            | 0.1852 | 0.192   | --   |                 | 0.2                      | 0.2   | 0.5      | 0.1                   | 0.1   | 10.8%                | 11.9% |
| 1,2,3,7,8-PeCDD     | 0.0534            | 0.2136 | 0.362   | --   |                 | 0.4                      | 0.4   | 1        | 0.4                   | 0.4   | 43.1%                | 47.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0279            | 0.1116 | 0.164   | --   |                 | 0.2                      | 0.2   | 0.1      | 0.0                   | 0.0   | 2.2%                 | 2.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0268            | 0.1072 | 0.424   | B    | <5x*B           | 0.4                      | 0.2   | 0.1      | 0.0                   | 0.0   | 4.3%                 | 2.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0499            | 0.1996 | 0.268   | --   |                 | 0.3                      | 0.3   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0531            | 0.2124 | 0.327   | B    | <5x*B           | 0.3                      | 0.2   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 2.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0353            | 0.1412 | 0.278   | --   |                 | 0.3                      | 0.3   | 0.1      | 0.0                   | 0.0   | 3.2%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.0343            | 0.1372 | 0.351   | --   |                 | 0.4                      | 0.4   | 0.1      | 0.0                   | 0.0   | 4.3%                 | 4.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0379            | 0.1516 | 0.634   | J    |                 | 0.6                      | 0.3   | 0.1      | 0.1                   | 0.0   | 6.5%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0446            | 0.1784 | 1.22    | B    | <5x*B           | 1.2                      | 0.6   | 0.01     | 0.0                   | 0.0   | 1.3%                 | 0.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.204             | 0.816  |         | E    |                 | 0.1                      |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0507            | 0.2028 | 5.88    | --   |                 | 5.9                      | 5.9   | 0.01     | 0.1                   | 0.1   | 6.4%                 | 7.0%  |
| OCDF                | 0.419             | 1.676  | 3.08    | B    | <5x*B           | 3.1                      | 1.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.28              | 1.12   | 53.6    | --   |                 | 53.6                     | 53.6  | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-77              | 0.0364            | 0.1456 | 3.39    | B    | <5x*B           | 3.4                      | 1.7   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0366            | 0.1464 | 0.332   | B    | <5x*B           | 0.3                      | 0.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.0524            | 0.2096 | 19.1    | B    | <5x*B           | 19.1                     | 9.6   | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 0.0518            | 0.2072 | 1.1     | --   |                 | 1.1                      | 1.1   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.0471            | 0.1884 | 37.3    | B    | <5x*B           | 37.3                     | 18.7  | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 0.0534            | 0.2136 | 1.03    | --   |                 | 1.0                      | 1.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0834            | 0.3336 | 0.701   | --   |                 | 0.7                      | 0.7   | 0.1      | 0.1                   | 0.1   | 7.5%                 | 8.3%  |
| PCB-156             | 0.0443            | 0.1772 | 8.64    | B    | <5x*B           | 8.6                      | 4.3   | 0.0005   | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 0.0446            | 0.1784 | 2.77    | B    | <5x*B           | 2.8                      | 1.4   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.0423            | 0.1692 | 5.03    | BJ   | <5x*B           | 5.0                      | 2.5   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0515            | 0.206  | 0.21    | B    | <5x*B           | 0.2                      | 0.1   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.108             | 0.432  | 1.49    | --   |                 | 1.5                      | 1.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.6   | 0.1       | 0.1   | 0.8          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 658               | Fine   | Field   | NW I-2 | NW              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0516            | 0.2064 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0371            | 0.1484 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0523            | 0.2092 |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0494            | 0.1976 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0511            | 0.2044 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0587            | 0.2348 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0171            | 0.0684 | 0.157   | B      | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 15.0%                | 11.6% |
| 2,3,4,6,7,8-HxCDF   | 0.148             | 0.592  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 7.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0502            | 0.2008 | 0.323   | B      | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 22.6%                | 23.2% |
| 1,2,3,4,7,8-HxCDD   | 0.0208            | 0.0832 | 0.175   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 15.0%                | 23.2% |
| 1,2,3,6,7,8-HxCDD   | 0.0193            | 0.0772 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0217            | 0.0868 |         | J      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0217            | 0.0868 | 0.621   | B      | <5x*B           | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 4.5%                 | 3.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0548            | 0.2192 |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.04              | 0.16   | 2.02    | --     |                 | 2.0                      | 2.0   | 0.01           | 0.0                   | 0.0   | 15.0%                | 23.2% |
| OCDF                | 0.224             | 0.896  | 1.01    | B      | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.22              | 0.88   | 13      | B      | <5x*B           | 13.0                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-77              | 0.0421            | 0.1684 | 1.79    | B      | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0409            | 0.1636 | 0.266   | B      | <5x*B           | 0.3                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.0453            | 0.1812 | 7.43    | B      | <5x*B           | 7.4                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 0.0448            | 0.1792 | 0.565   | --     |                 | 0.6                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-118             | 0.0383            | 0.1532 | 15.8    | B      | <5x*B           | 15.8                     | 7.9   | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 0.9%  |
| PCB-123             | 0.0435            | 0.174  | 0.469   | --     |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 0.103             | 0.412  | 0.234   | --     |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 15.0%                | 11.6% |
| PCB-156             | 0.0552            | 0.2208 | 2.44    | B      | <5x*B           | 2.4                      | 1.2   | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-157             | 0.0557            | 0.2228 | 0.839   | B      | <5x*B           | 0.8                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.0528            | 0.2112 | 1.35    | BJ     | <5x*B           | 1.4                      | 0.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0419            | 0.1676 | 0.11    | B      | <5x*B           | 0.1                      | 0.0   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 0.0%  |
| PCB-189             | 0.101             | 0.404  | 0.563   | --     |                 | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.0       | 0.0   | 0.0          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 514       | Fine              | Field  | NW I-3  | NW   | Industrial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.151             | 0.604  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.00536           | 0.0214 | 0.123   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 2.1%                 | 2.8%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0232            | 0.0928 | 0.196   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.275             | 1.1    |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 1.1%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0157            | 0.0628 | 1.19    | B    | <5x*B           | 1.2                      | 0.6   | 1              | 1.2                   | 0.6   | 25.8%                | 16.7% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0502            | 0.2008 | 0.624   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 1.3%                 | 1.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0455            | 0.182  | 0.546   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.8%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0509            | 0.2036 | 7.3     | D    |                 | 3.7                      |       | 0.1            | 0.4                   |       | 7.9%                 |       |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0594            | 0.2376 | 0.368   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 0.9%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.029             | 0.116  | 3.12    | --   |                 | 3.1                      | 3.1   | 0.1            | 0.3                   | 0.3   | 6.7%                 | 8.6%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0355            | 0.142  | 3.81    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 8.2%                 | 10.6% |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0326            | 0.1304 | 2.92    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 6.2%                 | 8.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0683            | 0.2732 | 14.8    | --   |                 | 14.8                     | 14.8  | 0.01           | 0.1                   | 0.1   | 3.2%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.848             | 3.392  |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0276            | 0.1104 | 97.5    | --   |                 | 97.5                     | 97.5  | 0.01           | 1.0                   | 1.0   | 20.9%                | 27.1% |      |       |      |       |      |
| OCDF                | 0.0365            | 0.146  | 34.8    | --   |                 | 34.8                     | 34.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.038             | 0.152  | 686     | --   |                 | 686.0                    | 686.0 | 0.0001         | 0.1                   | 0.1   | 1.5%                 | 1.9%  |      |       |      |       |      |
| PCB-77              | 0.0254            | 0.1016 | 118     | --   |                 | 118.0                    | 118.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-81              | 0.0274            | 0.1096 | 3.22    | --   |                 | 3.2                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.297             | 1.188  | 203     | --   |                 | 203.0                    | 203.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |       |      |
| PCB-114             | 0.311             | 1.244  | 6.67    | --   |                 | 6.7                      | 6.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.312             | 1.248  | 236     | --   |                 | 236.0                    | 236.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |      |       |      |       |      |
| PCB-123             | 0.355             | 1.42   | 10.9    | J    |                 | 10.9                     | 5.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.0378            | 0.1512 | 5.14    | --   |                 | 5.1                      | 5.1   | 0.1            | 0.5                   | 0.5   | 11.0%                | 14.2% |      |       |      |       |      |
| PCB-156             | 0.218             | 0.872  | 22.7    | --   |                 | 22.7                     | 22.7  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-157             | 0.225             | 0.9    | 6.86    | --   |                 | 6.9                      | 6.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.221             | 0.884  | 12.4    | --   |                 | 12.4                     | 12.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.438             | 1.752  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-189             | 0.0999            | 0.3996 | 2.02    | --   |                 | 2.0                      | 2.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.2               | 3.0   | 0.5       | 0.5   | 4.7          | 3.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 137       | Fine              | Field  | NW I-4  | NW   | Industrial      |                          |       |          |                       |       |                      |       |  |  |  |  |  |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0521            | 0.2084 | 0.559   | NJ   |                 | 0.3                      |       | 0.1      | 0.0                   |       | 0.5%                 |       |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.00378           | 0.0151 | 0.13    | --   |                 | 0.1                      | 0.1   | 1        | 0.1                   | 0.1   | 1.5%                 | 1.6%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0334            | 0.1336 | 0.587   | --   |                 | 0.6                      | 0.6   | 0.05     | 0.0                   | 0.0   | 0.5%                 | 0.5%  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.03              | 0.12   | 0.596   | --   |                 | 0.6                      | 0.6   | 0.5      | 0.3                   | 0.3   | 4.6%                 | 4.8%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0423            | 0.1692 | 0.94    | --   |                 | 0.9                      | 0.9   | 1        | 0.9                   | 0.9   | 13.7%                | 14.3% |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.777             | 3.108  |         | E    | <5x*B           | 0.4                      |       | 0.1      | 0.0                   |       | 0.6%                 |       |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.0322            | 0.1288 | 0.667   | --   |                 | 0.7                      | 0.7   | 0.1      | 0.1                   | 0.1   | 1.1%                 | 1.1%  |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0398            | 0.1592 | 0.626   | --   |                 | 0.6                      | 0.6   | 0.1      | 0.1                   | 0.1   | 0.9%                 | 1.0%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0421            | 0.1684 | 0.623   | --   |                 | 0.6                      | 0.6   | 0.1      | 0.1                   | 0.1   | 0.9%                 | 1.0%  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0306            | 0.1224 | 1.29    | --   |                 | 1.3                      | 1.3   | 0.1      | 0.1                   | 0.1   | 2.0%                 | 2.1%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.027             | 0.108  | 2.42    | --   |                 | 2.4                      | 2.4   | 0.1      | 0.2                   | 0.2   | 3.7%                 | 3.8%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0287            | 0.1148 | 2.18    | J    |                 | 2.2                      | 1.1   | 0.1      | 0.2                   | 0.1   | 3.4%                 | 1.7%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.17              | 0.68   | 7.91    | --   |                 | 7.9                      | 7.9   | 0.01     | 0.1                   | 0.1   | 1.2%                 | 1.3%  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.241             | 0.964  | 0.603   | --   |                 | 0.6                      | 0.3   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.0%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.00221           | 0.0088 | 54.8    | --   |                 | 54.8                     | 54.8  | 0.01     | 0.5                   | 0.5   | 8.4%                 | 8.7%  |  |  |  |  |  |
| OCDF                | 0.0193            | 0.0772 | 14.5    | J    |                 | 14.5                     | 7.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| OCDD                | 0.0243            | 0.0972 | 415     | --   |                 | 415.0                    | 415.0 | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.7%  |  |  |  |  |  |
| PCB-77              | 0.0585            | 0.234  | 57.3    | --   |                 | 57.3                     | 57.3  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-81              | 0.0704            | 0.2816 | 2.42    | --   |                 | 2.4                      | 2.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-105             | 4.26              | 17.04  | 514     | --   |                 | 514.0                    | 514.0 | 0.0001   | 0.1                   | 0.1   | 0.8%                 | 0.8%  |  |  |  |  |  |
| PCB-114             | 4.45              | 17.8   | 14.3    | --   |                 | 14.3                     | 7.2   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-118             | 5.04              | 20.16  | 906     | CJ   |                 | 906.0                    | 453.0 | 0.0001   | 0.1                   | 0.0   | 1.4%                 | 0.7%  |  |  |  |  |  |
| PCB-123             | 5.72              | 22.88  | 35.7    | --   |                 | 35.7                     | 35.7  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-126             | 0.295             | 1.18   | 32.5    | --   |                 | 32.5                     | 32.5  | 0.1      | 3.3                   | 3.3   | 49.6%                | 51.5% |  |  |  |  |  |
| PCB-156             | 0.755             | 3.02   | 378     | --   |                 | 378.0                    | 378.0 | 0.0005   | 0.2                   | 0.2   | 2.9%                 | 3.0%  |  |  |  |  |  |
| PCB-157             | 0.78              | 3.12   | 135     | --   |                 | 135.0                    | 135.0 | 0.0005   | 0.1                   | 0.1   | 1.0%                 | 1.1%  |  |  |  |  |  |
| PCB-167             | 0.768             | 3.072  | 178     | --   |                 | 178.0                    | 178.0 | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-169             | 0.143             | 0.572  | 2.17    | --   |                 | 2.2                      | 2.2   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.3%  |  |  |  |  |  |
| PCB-189             | 0.161             | 0.644  | 27.9    | --   |                 | 27.9                     | 27.9  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.7               | 2.6   | 3.8       | 3.7   | 6.5          | 6.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 534       | Fine              | Field  | NW I-5  | NW   | Industrial      |                          |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0206            | 0.0824 | 1.96    | NJ   |                 | 1.0                      |        | 0.1      | 0.1                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0479            | 0.1916 |         | E    |                 | 0.0                      |        | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.428             | 1.712  |         | E    |                 | 0.2                      |        | 0.05     | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0301            | 0.1204 | 0.776   | --   |                 | 0.8                      | 0.8    | 0.5      | 0.4                   | 0.4   | 1.7%                 | 1.9%  |
| 1,2,3,7,8-PeCDD     | 0.348             | 1.392  |         | E    |                 | 0.2                      |        | 1        | 0.2                   |       | 0.9%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0564            | 0.2256 | 0.651   | --   |                 | 0.7                      | 0.7    | 0.1      | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.413             | 1.652  |         | E    | <5x*B           | 0.2                      |        | 0.1      | 0.0                   |       | 0.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0615            | 0.246  |         | --   |                 | 0.0                      |        | 0.1      | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0889            | 0.3556 | 0.44    | B    | <5x*B           | 0.4                      | 0.2    | 0.1      | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0291            | 0.1164 | 0.38    | --   |                 | 0.4                      | 0.4    | 0.1      | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0225            | 0.09   | 0.942   | --   |                 | 0.9                      | 0.9    | 0.1      | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0261            | 0.1044 | 0.524   | J    |                 | 0.5                      | 0.3    | 0.1      | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0554            | 0.2216 | 5.76    | --   |                 | 5.8                      | 5.8    | 0.01     | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.101             | 0.404  | 0.53    | --   |                 | 0.5                      | 0.5    | 0.01     | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.035             | 0.14   | 20.2    | --   |                 | 20.2                     | 20.2   | 0.01     | 0.2                   | 0.2   | 0.9%                 | 0.9%  |
| OCDF                | 0.032             | 0.128  | 16.7    | --   |                 | 16.7                     | 16.7   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0271            | 0.1084 | 157     | --   |                 | 157.0                    | 157.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0565            | 0.226  | 561     | CJ   |                 | 561.0                    | 280.5  | 0.0001   | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.0758            | 0.3032 | 7.23    | --   |                 | 7.2                      | 7.2    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 13.1              | 52.4   | 4340    | CJ   |                 | 4340.0                   | 2170.0 | 0.0001   | 0.4                   | 0.2   | 1.9%                 | 1.0%  |
| PCB-114             | 13                | 52     | 64.7    | --   |                 | 64.7                     | 64.7   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 12                | 48     | 7760    | SJ   |                 | 7760.0                   | 3880.0 | 0.0001   | 0.8                   | 0.4   | 3.4%                 | 1.8%  |
| PCB-123             | 13.5              | 54     | 263     | --   |                 | 263.0                    | 263.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 1.67              | 6.68   | 192     | --   |                 | 192.0                    | 192.0  | 0.1      | 19.2                  | 19.2  | 83.5%                | 89.7% |
| PCB-156             | 0.552             | 2.208  | 1680    | CJ   |                 | 1680.0                   | 840.0  | 0.0005   | 0.8                   | 0.4   | 3.7%                 | 2.0%  |
| PCB-157             | 0.581             | 2.324  | 509     | CJ   |                 | 509.0                    | 254.5  | 0.0005   | 0.3                   | 0.1   | 1.1%                 | 0.6%  |
| PCB-167             | 0.536             | 2.144  | 515     | CJ   |                 | 515.0                    | 257.5  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.258             | 1.032  | 5.45    | J    |                 | 5.5                      | 2.7    | 0.01     | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.211             | 0.844  | 85.2    | --   |                 | 85.2                     | 85.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 0.9   | 21.7      | 20.3  | 23.0         | 21.2  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

|                  |            |             |              |               |           |                   |  |  |  |  |  |  |
|------------------|------------|-------------|--------------|---------------|-----------|-------------------|--|--|--|--|--|--|
| <b>Sample ID</b> | <b>871</b> | <b>Fine</b> | <b>Field</b> | <b>NW I-6</b> | <b>NW</b> | <b>Industrial</b> | Not included in laboratory reports due to insufficient mass for fine analysis; added to database based on field notes; bulk sample used to represent location. |  |  |  |  |  |
|------------------|------------|-------------|--------------|---------------|-----------|-------------------|--|--|--|--|--|--|

| <b>Analyte</b>      | <b>Analytical Limits</b> |           | <b>Results</b> |             | <b>&lt;5x in MB found</b> | <b>Adjusted Concentrations*</b> |              | <b>WHO TEFs</b> | <b>Calculated TEQs (ppt)</b> |              | <b>Percent of Total TEQ</b> |              |
|---------------------|--------------------------|-----------|----------------|-------------|---------------------------|---------------------------------|--------------|-----------------|------------------------------|--------------|-----------------------------|--------------|
|                     | <b>EDL</b>               | <b>QL</b> | <b>Conc</b>    | <b>Flag</b> |                           | <b>Full</b>                     | <b>Quant</b> |                 | <b>Full</b>                  | <b>Quant</b> | <b>Full</b>                 | <b>Quant</b> |
| 2,3,7,8-TCDF        |                          |           | --             |             |                           |                                 |              | 1               |                              |              |                             |              |
| 2,3,7,8-TCDD        |                          |           | --             |             |                           |                                 |              | 1               |                              |              |                             |              |
| 1,2,3,7,8-PeCDF     |                          |           | --             |             |                           |                                 |              | 0.05            |                              |              |                             |              |
| 2,3,4,7,8-PeCDF     |                          |           | --             |             |                           |                                 |              | 0.5             |                              |              |                             |              |
| 1,2,3,7,8-PeCDD     |                          |           | --             |             |                           |                                 |              | 1               |                              |              |                             |              |
| 1,2,3,4,7,8-HxCDF   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,6,7,8-HxCDF   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 2,3,4,6,7,8-HxCDF   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,7,8,9-HxCDF   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,4,7,8-HxCDD   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,6,7,8-HxCDD   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,7,8,9-HxCDD   |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| 1,2,3,4,6,7,8-HpCDF |                          |           | --             |             |                           |                                 |              | 0.01            |                              |              |                             |              |
| 1,2,3,4,7,8,9-HpCDF |                          |           | --             |             |                           |                                 |              | 0.01            |                              |              |                             |              |
| 1,2,3,4,6,7,8-HpCDD |                          |           | --             |             |                           |                                 |              | 0.01            |                              |              |                             |              |
| OCDF                |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| OCDD                |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-77              |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-81              |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-105             |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-114             |                          |           | --             |             |                           |                                 |              | 0.0005          |                              |              |                             |              |
| PCB-118             |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-123             |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |
| PCB-126             |                          |           | --             |             |                           |                                 |              | 0.1             |                              |              |                             |              |
| PCB-156             |                          |           | --             |             |                           |                                 |              | 0.0005          |                              |              |                             |              |
| PCB-157             |                          |           | --             |             |                           |                                 |              | 0.0005          |                              |              |                             |              |
| PCB-167             |                          |           | --             |             |                           |                                 |              | 0.00001         |                              |              |                             |              |
| PCB-169             |                          |           | --             |             |                           |                                 |              | 0.01            |                              |              |                             |              |
| PCB-189             |                          |           | --             |             |                           |                                 |              | 0.0001          |                              |              |                             |              |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| <u>Dioxin/Furan Only</u> |              | <u>PCBs Only</u> |              | <u>All Analytes</u> |              |
|--------------------------|--------------|------------------|--------------|---------------------|--------------|
| <u>Full</u>              | <u>Quant</u> | <u>Full</u>      | <u>Quant</u> | <u>Full</u>         | <u>Quant</u> |
| [Redacted]               | [Redacted]   |                  |              |                     |              |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 871-B             | Bulk   | Bulk    | NW I-6 | NW              | Industrial               | Insufficient mass for fine analysis (871); bulk sample used to represent location. |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0157            | 0.0628 | 0.328   | NJ     |                 | 0.2                      |  | 0.1      | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.00614           | 0.0246 | 0.254   | --     |                 | 0.3                      | 0.3  | 1        | 0.3                   | 0.3   | 5.6%                 | 7.1%  |
| 1,2,3,7,8-PeCDF     | 0.039             | 0.156  | 0.558   | --     |                 | 0.6                      | 0.6  | 0.05     | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.0299            | 0.1196 | 0.596   | --     |                 | 0.6                      | 0.6  | 0.5      | 0.3                   | 0.3   | 5.6%                 | 7.1%  |
| 1,2,3,7,8-PeCDD     | 0.0458            | 0.1832 | 0.946   | --     |                 | 0.9                      | 0.9  | 1        | 0.9                   | 0.9   | 16.9%                | 21.3% |
| 1,2,3,4,7,8-HxCDF   | 0.228             | 0.912  | 1.21    | --     |                 | 1.2                      | 1.2  | 0.1      | 0.1                   | 0.1   | 2.3%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.165             | 0.66   | 1.13    | --     |                 | 1.1                      | 1.1  | 0.1      | 0.1                   | 0.1   | 2.1%                 | 2.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.203             | 0.812  | 1.32    | B      | <5x*B           | 1.3                      | 0.7  | 0.1      | 0.1                   | 0.1   | 2.4%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.215             | 0.86   | 0.608   | B      | <5x*B           | 0.6                      | 0.2  | 0.1      | 0.1                   | 0.0   | 1.1%                 | 0.5%  |
| 1,2,3,4,7,8-HxCDD   | 1.14              | 4.56   |         | E      |                 | 0.6                      |  | 0.1      | 0.1                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0644            | 0.2576 | 3.14    | --     |                 | 3.1                      | 3.1  | 0.1      | 0.3                   | 0.3   | 5.8%                 | 7.3%  |
| 1,2,3,7,8,9-HxCDD   | 2.52              | 10.08  |         | EJ     |                 | 1.3                      |  | 0.1      | 0.1                   |       | 2.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.15              | 8.6    | 18.6    | --     |                 | 18.6                     | 18.6   | 0.01     | 0.2                   | 0.2   | 3.5%                 | 4.4%  |
| 1,2,3,4,7,8,9-HpCDF | 4.21              | 16.84  |         | --     |                 | 2.1                      |  | 0.01     | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0679            | 0.2716 | 93.4    | --     |                 | 93.4                     | 93.4   | 0.01     | 0.9                   | 0.9   | 17.6%                | 22.1% |
| OCDF                | 0.0862            | 0.3448 | 32.8    | --     |                 | 32.8                     | 32.8   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0687            | 0.2748 | 667     | --     |                 | 667.0                    | 667.0  | 0.0001   | 0.1                   | 0.1   | 1.3%                 | 1.6%  |
| PCB-77              | 0.0985            | 0.394  | 92.4    | --     |                 | 92.4                     | 92.4   | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.0922            | 0.3688 | 3.3     | BJ     | <5x*B           | 3.3                      | 1.7  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.58              | 6.32   | 397     | --     |                 | 397.0                    | 397.0  | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| PCB-114             | 1.65              | 6.6    | 15.6    | --     |                 | 15.6                     | 15.6   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 1.73              | 6.92   | 862     | CJ     |                 | 862.0                    | 431.0  | 0.0001   | 0.1                   | 0.0   | 1.6%                 | 1.0%  |
| PCB-123             | 1.96              | 7.84   | 19.2    | --     |                 | 19.2                     | 19.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.393             | 1.572  | 14      | J      |                 | 14.0                     | 7.0  | 0.1      | 1.4                   | 0.7   | 26.3%                | 16.5% |
| PCB-156             | 1.67              | 6.68   | 116     | --     |                 | 116.0                    | 116.0  | 0.0005   | 0.1                   | 0.1   | 1.1%                 | 1.4%  |
| PCB-157             | 1.73              | 6.92   | 31.6    | --     |                 | 31.6                     | 31.6   | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 1.7               | 6.8    | 52.6    | --     |                 | 52.6                     | 52.6   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.103             | 0.412  | 1.4     | IJ     |                 | 1.4                      | 0.7  | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-189             | 0.236             | 0.944  | 11      | --     |                 | 11.0                     | 11.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.6               | 3.3   | 1.6       | 0.8   | 5.2          | 4.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 821               | Fine   | Field   | NW I-7 | NW              | Industrial               |        |          |      |                       |      |                      |       |       |  |  |  |  |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|------|-----------------------|------|----------------------|-------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |       |       |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  | Human    | Full | Quant                 | Full | Quant                | Full  | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0635            | 0.254  | 1.22    | NJ     |                 | 0.6                      |        | 0.1      | 0.1  |                       |      |                      | 0.3%  |       |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0518            | 0.2072 | 1.8     | --     |                 | 1.8                      | 1.8    | 1        | 1.8  | 1.8                   | 1.8  | 8.3%                 | 9.4%  |       |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0752            | 0.3008 | 1.62    | --     |                 | 1.6                      | 1.6    | 0.05     | 0.1  | 0.1                   | 0.1  | 0.4%                 | 0.4%  |       |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0513            | 0.2052 | 2.19    | --     |                 | 2.2                      | 2.2    | 0.5      | 1.1  | 1.1                   | 1.1  | 5.1%                 | 5.8%  |       |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.146             | 0.584  | 5.34    | --     |                 | 5.3                      | 5.3    | 1        | 5.3  | 5.3                   | 5.3  | 24.5%                | 27.7% |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.512             | 2.048  | 7.91    | --     |                 | 7.9                      | 7.9    | 0.1      | 0.8  | 0.8                   | 0.8  | 3.6%                 | 4.1%  |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.415             | 1.66   | 5.08    | --     |                 | 5.1                      | 5.1    | 0.1      | 0.5  | 0.5                   | 0.5  | 2.4%                 | 2.7%  |       |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.46              | 1.84   | 6.91    | --     |                 | 6.9                      | 6.9    | 0.1      | 0.7  | 0.7                   | 0.7  | 3.2%                 | 3.6%  |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.524             | 2.096  | 1.44    | B      | <5x*B           | 1.4                      | 0.4    | 0.1      | 0.1  | 0.0                   | 0.0  | 0.6%                 | 0.2%  |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0874            | 0.3496 | 5.23    | --     |                 | 5.2                      | 5.2    | 0.1      | 0.5  | 0.5                   | 0.5  | 2.4%                 | 2.7%  |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0639            | 0.2556 | 16.7    | --     |                 | 16.7                     | 16.7   | 0.1      | 1.7  | 1.7                   | 1.7  | 7.7%                 | 8.7%  |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0763            | 0.3052 | 14.9    | J      |                 | 14.9                     | 7.5    | 0.1      | 1.5  | 0.8                   | 0.8  | 6.9%                 | 3.9%  |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 140               | 560    |         | D      |                 | 35.0                     |        | 0.01     | 0.4  |                       |      | 1.6%                 |       |       |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 7.01              | 28.04  |         | E      |                 | 3.5                      |        | 0.01     | 0.0  |                       |      | 0.2%                 |       |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.257             | 1.028  | 440     | --     |                 | 440.0                    | 440.0  | 0.01     | 4.4  | 4.4                   | 4.4  | 20.3%                | 23.0% |       |  |  |  |  |
| OCDF                | 0.112             | 0.448  | 246     | J      |                 | 246.0                    | 123.0  | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.1%  |       |  |  |  |  |
| OCDD                | 0.0521            | 0.2084 | 3730    | SJ     |                 | 3730.0                   | 1865.0 | 0.0001   | 0.4  | 0.2                   | 0.2  | 1.7%                 | 1.0%  |       |  |  |  |  |
| PCB-77              | 0.111             | 0.444  | 170     | --     |                 | 170.0                    | 170.0  | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.1%  |       |  |  |  |  |
| PCB-81              | 0.101             | 0.404  | 5.18    | --     |                 | 5.2                      | 5.2    | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |
| PCB-105             | 0.83              | 3.32   | 906     | CJ     |                 | 906.0                    | 453.0  | 0.0001   | 0.1  | 0.0                   | 0.0  | 0.4%                 | 0.2%  |       |  |  |  |  |
| PCB-114             | 0.867             | 3.468  |         | --     |                 | 0.4                      |        | 0.0005   | 0.0  |                       |      | 0.0%                 |       |       |  |  |  |  |
| PCB-118             | 1.43              | 5.72   | 1640    | CJ     |                 | 1640.0                   | 820.0  | 0.0001   | 0.2  | 0.1                   | 0.1  | 0.8%                 | 0.4%  |       |  |  |  |  |
| PCB-123             | 1.62              | 6.48   |         | --     |                 | 0.8                      |        | 0.0001   | 0.0  |                       |      | 0.0%                 |       |       |  |  |  |  |
| PCB-126             | 0.979             | 3.916  | 18.4    | J      |                 | 18.4                     | 9.2    | 0.1      | 1.8  | 0.9                   | 0.9  | 8.5%                 | 4.8%  |       |  |  |  |  |
| PCB-156             | 1.28              | 5.12   | 320     | --     |                 | 320.0                    | 320.0  | 0.0005   | 0.2  | 0.2                   | 0.2  | 0.7%                 | 0.8%  |       |  |  |  |  |
| PCB-157             | 1.33              | 5.32   | 87.4    | --     |                 | 87.4                     | 87.4   | 0.0005   | 0.0  | 0.0                   | 0.0  | 0.2%                 | 0.2%  |       |  |  |  |  |
| PCB-167             | 1.3               | 5.2    | 93.7    | --     |                 | 93.7                     | 93.7   | 0.00001  | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |
| PCB-169             | 0.136             | 0.544  | 1.74    | J      |                 | 1.7                      | 0.9    | 0.01     | 0.0  | 0.0                   | 0.0  | 0.1%                 | 0.0%  |       |  |  |  |  |
| PCB-189             | 0.925             | 3.7    | 29.4    | --     |                 | 29.4                     | 29.4   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0%                 | 0.0%  |       |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 19.4              | 17.9  | 2.3       | 1.2   | 21.7         | 19.1  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 272               | Fine   | Field   | SE I-1 | SE              | Industrial               |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0893            | 0.3572 | 1.54    | NJ     |                 | 0.8                      |        | 0.1      | 0.1                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.215             | 0.86   |         | E      |                 | 0.1                      |        | 1        | 0.1                   |       | 0.5%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0864            | 0.3456 | 2.19    | --     |                 | 2.2                      | 2.2    | 0.05     | 0.1                   | 0.1   | 0.6%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.0542            | 0.2168 | 4.81    | --     |                 | 4.8                      | 4.8    | 0.5      | 2.4                   | 2.4   | 13.1%                | 14.6% |
| 1,2,3,7,8-PeCDD     | 0.0369            | 0.1476 | 2.95    | --     |                 | 3.0                      | 3.0    | 1        | 3.0                   | 3.0   | 16.4%                | 18.3% |
| 1,2,3,4,7,8-HxCDF   | 1.2               | 4.8    | 5.87    | --     |                 | 5.9                      | 5.9    | 0.1      | 0.6                   | 0.6   | 3.2%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 1.01              | 4.04   | 3.64    | --     |                 | 3.6                      | 1.8    | 0.1      | 0.4                   | 0.2   | 2.0%                 | 1.1%  |
| 2,3,4,6,7,8-HxCDF   | 1.32              | 5.28   | 9.05    | --     |                 | 9.1                      | 9.1    | 0.1      | 0.9                   | 0.9   | 5.0%                 | 5.5%  |
| 1,2,3,7,8,9-HxCDF   | 1.39              | 5.56   | 2.14    | B      | <5x*B           | 2.1                      | 0.5    | 0.1      | 0.2                   | 0.1   | 1.1%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.13              | 0.52   | 4.75    | --     |                 | 4.8                      | 4.8    | 0.1      | 0.5                   | 0.5   | 2.6%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.122             | 0.488  | 13.4    | --     |                 | 13.4                     | 13.4   | 0.1      | 1.3                   | 1.3   | 7.3%                 | 8.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.13              | 0.52   | 9.86    | J      |                 | 9.9                      | 4.9    | 0.1      | 1.0                   | 0.5   | 5.4%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.174             | 0.696  | 115     | --     |                 | 115.0                    | 115.0  | 0.01     | 1.2                   | 1.2   | 6.3%                 | 7.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.253             | 1.012  | 6.16    | --     |                 | 6.2                      | 6.2    | 0.01     | 0.1                   | 0.1   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.17              | 0.68   | 462     | --     |                 | 462.0                    | 462.0  | 0.01     | 4.6                   | 4.6   | 25.2%                | 28.1% |
| OCDF                | 0.111             | 0.444  | 301     | J      |                 | 301.0                    | 150.5  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| OCDD                | 0.141             | 0.564  | 3490    | CJ     |                 | 3490.0                   | 1745.0 | 0.0001   | 0.3                   | 0.2   | 1.9%                 | 1.1%  |
| PCB-77              | 0.0758            | 0.3032 | 89.6    | --     |                 | 89.6                     | 89.6   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.0835            | 0.334  | 3.14    | BJ     | <5x*B           | 3.1                      | 1.6    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4.31              | 17.24  | 339     | --     |                 | 339.0                    | 339.0  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 4.5               | 18     | 14.4    | J      |                 | 14.4                     | 3.6    | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 4.48              | 17.92  | 724     | CJ     |                 | 724.0                    | 362.0  | 0.0001   | 0.1                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 5.09              | 20.36  | 14.5    | --     |                 | 14.5                     | 7.3    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.395             | 1.58   | 12.9    | J      |                 | 12.9                     | 6.5    | 0.1      | 1.3                   | 0.7   | 7.0%                 | 4.0%  |
| PCB-156             | 0.889             | 3.556  | 163     | --     |                 | 163.0                    | 163.0  | 0.0005   | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| PCB-157             | 0.919             | 3.676  | 44.9    | --     |                 | 44.9                     | 44.9   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.904             | 3.616  | 81.5    | J      |                 | 81.5                     | 40.8   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0767            | 0.3068 | 2.14    | --     |                 | 2.1                      | 2.1    | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.429             | 1.716  | 30.8    | --     |                 | 30.8                     | 30.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 16.8              | 15.7  | 1.5       | 0.8   | 18.3         | 16.5  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 184               | Fine   | Field   | SE I-2 | SE              | Industrial               |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.297             | 1.188  | 1.33    | NJ     |                 | 0.7                      |        | 0.1      | 0.1                   |       | 0.1%                 |       |
| 2,3,7,8-TCDD        | 0.0297            | 0.1188 | 1.7     | --     |                 | 1.7                      | 1.7    | 1        | 1.7                   | 1.7   | 2.9%                 | 3.8%  |
| 1,2,3,7,8-PeCDF     | 0.108             | 0.432  | 2.78    | --     |                 | 2.8                      | 2.8    | 0.05     | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| 2,3,4,7,8-PeCDF     | 0.0593            | 0.2372 | 6.5     | --     |                 | 6.5                      | 6.5    | 0.5      | 3.3                   | 3.3   | 5.6%                 | 7.3%  |
| 1,2,3,7,8-PeCDD     | 0.1               | 0.4    | 14.4    | --     |                 | 14.4                     | 14.4   | 1        | 14.4                  | 14.4  | 24.8%                | 32.5% |
| 1,2,3,4,7,8-HxCDF   | 0.398             | 1.592  | 11.9    | --     |                 | 11.9                     | 11.9   | 0.1      | 1.2                   | 1.2   | 2.1%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.345             | 1.38   | 8.76    | --     |                 | 8.8                      | 8.8    | 0.1      | 0.9                   | 0.9   | 1.5%                 | 2.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.473             | 1.892  | 15.6    | --     |                 | 15.6                     | 15.6   | 0.1      | 1.6                   | 1.6   | 2.7%                 | 3.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.544             | 2.176  | 2.97    | B      | <5x*B           | 3.0                      | 1.5    | 0.1      | 0.3                   | 0.2   | 0.5%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0786            | 0.3144 | 22.2    | --     |                 | 22.2                     | 22.2   | 0.1      | 2.2                   | 2.2   | 3.8%                 | 5.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0721            | 0.2884 | 61      | --     |                 | 61.0                     | 61.0   | 0.1      | 6.1                   | 6.1   | 10.5%                | 13.8% |
| 1,2,3,7,8,9-HxCDD   | 0.078             | 0.312  | 37      | J      |                 | 37.0                     | 18.5   | 0.1      | 3.7                   | 1.9   | 6.4%                 | 4.2%  |
| 1,2,3,4,6,7,8-HpCDF | 389               | 1556   | D       | <5x*B  |                 | 97.3                     |        | 0.01     | 1.0                   |       | 1.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.16              | 0.64   | 16.3    | --     |                 | 16.3                     | 16.3   | 0.01     | 0.2                   | 0.2   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0584            | 0.2336 | 1700    | CJ     |                 | 1700.0                   | 850.0  | 0.01     | 17.0                  | 8.5   | 29.3%                | 19.2% |
| OCDF                | 0.115             | 0.46   | 820     | J      |                 | 820.0                    | 410.0  | 0.0001   | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0751            | 0.3004 | 5410    | SJ     |                 | 5410.0                   | 2705.0 | 0.0001   | 0.5                   | 0.3   | 0.9%                 | 0.6%  |
| PCB-77              | 0.175             | 0.7    | 359     | CJ     |                 | 359.0                    | 179.5  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.169             | 0.676  | 9.85    | J      |                 | 9.9                      | 4.9    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.39              | 13.56  | 736     | CJ     |                 | 736.0                    | 368.0  | 0.0001   | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 3.54              | 14.16  | 19.3    | J      |                 | 19.3                     | 9.7    | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 3.5               | 14     | 1120    | CJ     |                 | 1120.0                   | 560.0  | 0.0001   | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 3.98              | 15.92  | 52.2    | --     |                 | 52.2                     | 52.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.15              | 4.6    | 32.7    | J      |                 | 32.7                     | 16.4   | 0.1      | 3.3                   | 1.6   | 5.6%                 | 3.7%  |
| PCB-156             | 1.15              | 4.6    | 221     | --     |                 | 221.0                    | 221.0  | 0.0005   | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-157             | 1.19              | 4.76   | 71.1    | --     |                 | 71.1                     | 71.1   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 1.17              | 4.68   | 128     | J      |                 | 128.0                    | 64.0   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 4.3               | 17.2   | E       |        |                 | 2.2                      |        | 0.01     | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.241             | 0.964  | 44.7    | --     |                 | 44.7                     | 44.7   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 54.4              | 42.6  | 3.6       | 1.8   | 58.0         | 44.4  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 929               | Fine   | Field   | SE I-3 | SE              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.268             | 1.072  | --      |        |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0476            | 0.1904 | --      |        |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.591             | 2.364  | E       |        |                 | 0.3                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0968            | 0.3872 | 3.15    | --     |                 | 3.2                      | 3.2   | 0.5            | 1.6                   | 1.6   | 28.0%                | 32.1% |
| 1,2,3,7,8-PeCDD     | 0.839             | 3.356  | E       |        |                 | 0.4                      |       | 1              | 0.4                   |       | 7.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.165             | 0.66   | 3.39    | --     |                 | 3.4                      | 3.4   | 0.1            | 0.3                   | 0.3   | 6.0%                 | 6.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.139             | 0.556  | 1.28    | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 2.6%  |
| 2,3,4,6,7,8-HxCDF   | 7.34              | 29.36  | D       | <5x*B  |                 | 1.8                      |       | 0.1            | 0.2                   |       | 3.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.232             | 0.928  | 1.38    | B      | <5x*B           | 1.4                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.186             | 0.744  | 1.33    | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 2.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.162             | 0.648  | 3.46    | --     |                 | 3.5                      | 3.5   | 0.1            | 0.4                   | 0.4   | 6.1%                 | 7.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.175             | 0.7    | 1.68    | --     |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 3.0%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.33              | 1.32   | 25.1    | --     |                 | 25.1                     | 25.1  | 0.01           | 0.3                   | 0.3   | 4.4%                 | 5.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.624             | 2.496  | 2.11    | --     |                 | 2.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.238             | 0.952  | 93.8    | --     |                 | 93.8                     | 93.8  | 0.01           | 0.9                   | 0.9   | 16.4%                | 18.8% |
| OCDF                | 0.321             | 1.284  | 117     | J      |                 | 117.0                    | 58.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| OCDD                | 0.386             | 1.544  | 814     | --     |                 | 814.0                    | 814.0 | 0.0001         | 0.1                   | 0.1   | 1.4%                 | 1.6%  |
| PCB-77              | 0.109             | 0.436  | 33.1    | --     |                 | 33.1                     | 33.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.134             | 0.536  | 1.82    | B      | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 18.5              | 74     | 190     | --     |                 | 190.0                    | 190.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-114             | 19.4              | 77.6   | 8.19    | --     |                 | 9.7                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 21.1              | 84.4   | 433     | J      |                 | 433.0                    | 216.5 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.4%  |
| PCB-123             | 24                | 96     | --      |        |                 | 12.0                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.468             | 1.872  | 8.02    | --     |                 | 8.0                      | 8.0   | 0.1            | 0.8                   | 0.8   | 14.0%                | 16.0% |
| PCB-156             | 1.03              | 4.12   | 100     | --     |                 | 100.0                    | 100.0 | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-157             | 1.06              | 4.24   | 27.5    | --     |                 | 27.5                     | 27.5  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 1.04              | 4.16   | 55.3    | --     |                 | 55.3                     | 55.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.29              | 5.16   | E       | <5x*B  |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.54              | 2.16   | 16.1    | --     |                 | 16.1                     | 16.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.7               | 4.1   | 0.9       | 0.9   | 5.6          | 5.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 254               | Fine   | Field | SE I-4  | SE    | Industrial      |                          |         |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.299             | 1.196  | 4.89  | NJ      |       | 2.4             |                          | 0.1     |          | 0.2   |                       |       |                      | 0.6%  |       |  |  |  |
| 2,3,7,8-TCDD        | 0.0566            | 0.2264 |       | --      |       | 0.0             |                          | 1       |          | 0.0   |                       |       |                      | 0.0%  |       |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.184             | 0.736  | 5.29  | --      |       | 5.3             | 5.3                      | 0.05    |          | 0.3   | 0.3                   |       | 0.6%                 |       | 1.1%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.102             | 0.408  | 10.1  | --      |       | 10.1            | 10.1                     | 0.5     |          | 5.1   | 5.1                   |       | 12.4%                |       | 20.6% |  |  |  |
| 1,2,3,7,8-PeCDD     | 7.18              | 28.72  |       | E       |       | 3.6             |                          | 1       |          | 3.6   |                       |       |                      | 8.8%  |       |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.365             | 1.46   | 10.3  | --      |       | 10.3            | 10.3                     | 0.1     |          | 1.0   | 1.0                   |       | 2.5%                 |       | 4.2%  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.291             | 1.164  | 5.61  | --      |       | 5.6             | 5.6                      | 0.1     |          | 0.6   | 0.6                   |       | 1.4%                 |       | 2.3%  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.402             | 1.608  | 11.3  | --      |       | 11.3            | 11.3                     | 0.1     |          | 1.1   | 1.1                   |       | 2.8%                 |       | 4.6%  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.443             | 1.772  | 3.22  | B       | <5x*B | 3.2             | 1.6                      | 0.1     |          | 0.3   | 0.2                   |       | 0.8%                 |       | 0.7%  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.147             | 0.588  | 11.6  | --      |       | 11.6            | 11.6                     | 0.1     |          | 1.2   | 1.2                   |       | 2.8%                 |       | 4.7%  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.129             | 0.516  | 29.1  | --      |       | 29.1            | 29.1                     | 0.1     |          | 2.9   | 2.9                   |       | 7.1%                 |       | 11.9% |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.141             | 0.564  | 22.4  | J       |       | 22.4            | 11.2                     | 0.1     |          | 2.2   | 1.1                   |       | 5.5%                 |       | 4.6%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 168               | 672    |       | D       | <5x*B | 42.0            |                          | 0.01    |          | 0.4   |                       |       |                      | 1.0%  |       |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.759             | 3.036  | 8.63  | --      |       | 8.6             | 8.6                      | 0.01    |          | 0.1   | 0.1                   |       | 0.2%                 |       | 0.4%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.261             | 1.044  | 1150  | CJ      |       | 1150.0          | 575.0                    | 0.01    |          | 11.5  | 5.8                   |       | 28.2%                |       | 23.5% |  |  |  |
| OCDF                | 0.238             | 0.952  | 375   | J       |       | 375.0           | 187.5                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| OCDD                | 0.264             | 1.056  | 8000  | SJ      |       | 8000.0          | 4000.0                   | 0.0001  |          | 0.8   | 0.4                   |       | 2.0%                 |       | 1.6%  |  |  |  |
| PCB-77              | 0.122             | 0.488  | 378   | CJ      |       | 378.0           | 189.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-81              | 0.131             | 0.524  | 13.9  | J       |       | 13.9            | 7.0                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-105             | 14                | 56     | 3070  | CJ      |       | 3070.0          | 1535.0                   | 0.0001  |          | 0.3   | 0.2                   |       | 0.8%                 |       | 0.6%  |  |  |  |
| PCB-114             | 14.7              | 58.8   | 119   | J       |       | 119.0           | 59.5                     | 0.0005  |          | 0.1   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| PCB-118             | 13.7              | 54.8   | 6460  | CJ      |       | 6460.0          | 3230.0                   | 0.0001  |          | 0.6   | 0.3                   |       | 1.6%                 |       | 1.3%  |  |  |  |
| PCB-123             | 15.5              | 62     | 132   | --      |       | 132.0           | 132.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.1%  |  |  |  |
| PCB-126             | 3.44              | 13.76  | 76.9  | J       |       | 76.9            | 38.5                     | 0.1     |          | 7.7   | 3.9                   |       | 18.8%                |       | 15.7% |  |  |  |
| PCB-156             | 4.11              | 16.44  | 1010  | CJ      |       | 1010.0          | 505.0                    | 0.0005  |          | 0.5   | 0.3                   |       | 1.2%                 |       | 1.0%  |  |  |  |
| PCB-157             | 4.25              | 17     | 251   | --      |       | 251.0           | 251.0                    | 0.0005  |          | 0.1   | 0.1                   |       | 0.3%                 |       | 0.5%  |  |  |  |
| PCB-167             | 4.18              | 16.72  | 465   | J       |       | 465.0           | 232.5                    | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-169             | 0.278             | 1.112  | 6.38  | --      |       | 6.4             | 6.4                      | 0.01    |          | 0.1   | 0.1                   |       | 0.2%                 |       | 0.3%  |  |  |  |
| PCB-189             | 0.771             | 3.084  | 91.1  | --      |       | 91.1            | 91.1                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 31.3              | 19.8  | 9.4       | 4.9   | 40.7         | 24.7  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 326       | Fine              | Field | SE I-5  | SE   | Industrial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.686             | 2.744 |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.976             | 3.904 |         | --   |                 | 0.5                      |       | 1              | 0.5                   |       | 8.4%                 |       |
| 1,2,3,7,8-PeCDF     | 2.2               | 8.8   |         | --   |                 | 1.1                      |       | 0.05           | 0.1                   |       | 0.9%                 |       |
| 2,3,4,7,8-PeCDF     | 1.73              | 6.92  | 1.8     | --   |                 | 1.8                      | 0.9   | 0.5            | 0.9                   | 0.5   | 15.1%                | 14.3% |
| 1,2,3,7,8-PeCDD     | 2.07              | 8.28  |         | --   |                 | 1.0                      |       | 1              | 1.0                   |       | 16.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 1.01              | 4.04  |         | --   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.8%                 |       |
| 1,2,3,6,7,8-HxCDF   | 1.27              | 5.08  | 2.25    | --   |                 | 2.3                      | 1.1   | 0.1            | 0.2                   | 0.1   | 3.9%                 | 3.5%  |
| 2,3,4,6,7,8-HxCDF   | 1.91              | 7.64  |         | --   |                 | 1.0                      |       | 0.1            | 0.1                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 3.63              | 14.52 |         | --   |                 | 1.8                      |       | 0.1            | 0.2                   |       | 3.0%                 |       |
| 1,2,3,4,7,8-HxCDD   | 1.62              | 6.48  |         | --   |                 | 0.8                      |       | 0.1            | 0.1                   |       | 1.3%                 |       |
| 1,2,3,6,7,8-HxCDD   | 1.47              | 5.88  | 1.87    | --   |                 | 1.9                      | 0.9   | 0.1            | 0.2                   | 0.1   | 3.2%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDD   | 1.34              | 5.36  |         | J    |                 | 0.7                      |       | 0.1            | 0.1                   |       | 1.2%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 8.94              | 35.76 |         | D    |                 | 2.2                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 10.6              | 42.4  |         | --   |                 | 5.3                      |       | 0.01           | 0.1                   |       | 0.9%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 4.38              | 17.52 | 29      | --   |                 | 29.0                     | 29.0  | 0.01           | 0.3                   | 0.3   | 4.9%                 | 9.2%  |
| OCDF                | 13                | 52    |         | EIJ  |                 | 6.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 10.5              | 42    | 198     | I    |                 | 198.0                    | 198.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.6%  |
| PCB-77              | 1.05              | 4.2   | 82.4    | --   |                 | 82.4                     | 82.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-81              | 1                 | 4     | 4.3     | --   |                 | 4.3                      | 4.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4.93              | 19.72 | 443     | --   |                 | 443.0                    | 443.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.4%  |
| PCB-114             | 5.15              | 20.6  | 17.2    | --   |                 | 17.2                     | 8.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 5.15              | 20.6  | 965     | --   |                 | 965.0                    | 965.0 | 0.0001         | 0.1                   | 0.1   | 1.6%                 | 3.1%  |
| PCB-123             | 5.85              | 23.4  | 24.6    | J    |                 | 24.6                     | 12.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.17              | 4.68  | 18.8    | --   |                 | 18.8                     | 18.8  | 0.1            | 1.9                   | 1.9   | 31.5%                | 59.9% |
| PCB-156             | 0.497             | 1.988 | 207     | --   |                 | 207.0                    | 207.0 | 0.0005         | 0.1                   | 0.1   | 1.7%                 | 3.3%  |
| PCB-157             | 0.514             | 2.056 | 54.4    | --   |                 | 54.4                     | 54.4  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.9%  |
| PCB-167             | 0.505             | 2.02  | 109     | --   |                 | 109.0                    | 109.0 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.01              | 4.04  | 1.41    | --   |                 | 1.4                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.522             | 2.088 | 23.7    | --   |                 | 23.7                     | 23.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.9               | 1.0   | 2.1       | 2.1   | 6.0          | 3.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 556       | Fine              | Field  | SE I-6  | SE   | Industrial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0156            | 0.0624 | 0.444   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0201            | 0.0804 | 0.197   | --   |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 4.5%                 | 4.8%  |
| 1,2,3,7,8-PeCDF     | 0.0667            | 0.2668 | 0.284   | --   |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.0663            | 0.2652 | 0.603   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 6.7%                 | 7.2%  |
| 1,2,3,7,8-PeCDD     | 0.102             | 0.408  | 0.483   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 11.2%                | 12.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0225            | 0.09   | 0.51    | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDF   | 1.3               | 5.2    |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.03              | 0.12   | 0.741   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 1.6%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.324             | 1.296  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.506             | 2.024  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,6,7,8-HxCDD   | 1.25              | 5      |         | E    |                 | 0.6                      |       | 0.1            | 0.1                   |       | 1.3%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0424            | 0.1696 | 1.03    | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 2.4%  |
| 1,2,3,4,6,7,8-HpCDF | 7.5               | 30     |         | DJ   | <5x*B           | 1.9                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.264             | 1.056  | 0.535   | --   |                 | 0.5                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0646            | 0.2584 | 37.8    | --   |                 | 37.8                     | 37.8  | 0.01           | 0.4                   | 0.4   | 8.5%                 | 9.0%  |
| OCDF                | 0.112             | 0.448  | 12.9    | J    |                 | 12.9                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.13              | 0.52   | 349     | --   |                 | 349.0                    | 349.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.8%  |
| PCB-77              | 1.15              | 4.6    | 176     | I    |                 | 176.0                    | 176.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-81              | 1.24              | 4.96   |         | I    |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 11.2              | 44.8   | 752     | --   |                 | 752.0                    | 752.0 | 0.0001         | 0.1                   | 0.1   | 1.7%                 | 1.8%  |
| PCB-114             | 11.2              | 44.8   | 20.7    | --   |                 | 20.7                     | 10.4  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 9.56              | 38.24  | 1320    | CJ   |                 | 1320.0                   | 660.0 | 0.0001         | 0.1                   | 0.1   | 3.0%                 | 1.6%  |
| PCB-123             | 10.8              | 43.2   |         | --   |                 | 5.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.129             | 0.516  | 22.3    | --   |                 | 22.3                     | 22.3  | 0.1            | 2.2                   | 2.2   | 50.0%                | 53.3% |
| PCB-156             | 2.03              | 8.12   | 219     | --   |                 | 219.0                    | 219.0 | 0.0005         | 0.1                   | 0.1   | 2.5%                 | 2.6%  |
| PCB-157             | 2.13              | 8.52   | 56.5    | --   |                 | 56.5                     | 56.5  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-167             | 1.97              | 7.88   | 120     | J    |                 | 120.0                    | 60.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0243            | 0.0972 | 1.76    | --   |                 | 1.8                      | 1.8   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-189             | 32.3              | 129.2  |         | E    | <5x*B           | 16.2                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.6   | 2.5       | 2.5   | 4.3          | 4.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 271               | Fine   | Field   | SE I-7 | SE              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0472            | 0.1888 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0622            | 0.2488 | 0.125   | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 4.1%                 | 5.6%  |
| 1,2,3,7,8-PeCDF     | 0.107             | 0.428  | 0.234   | B      | <5x*B           | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| 2,3,4,7,8-PeCDF     | 0.0886            | 0.3544 | 0.297   | B      | <5x*B           | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 6.2%                 | 2.8%  |
| 1,2,3,7,8-PeCDD     | 0.0937            | 0.3748 | 0.611   | B      | <5x*B           | 0.6                      | 0.3   | 1              | 0.6                   | 0.3   | 24.8%                | 16.9% |
| 1,2,3,4,7,8-HxCDF   | 0.423             | 1.692  |         | E      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.148             | 0.592  | 0.516   | B      | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.1%                 | 0.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.176             | 0.704  | 0.574   | B      | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 0.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.183             | 0.732  | 0.53    | B      | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.1%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0837            | 0.3348 | 0.715   | J      |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0709            | 0.2836 | 1.11    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 6.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0683            | 0.2732 | 1.04    | J      |                 | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.219             | 0.876  | 4.59    | --     |                 | 4.6                      | 4.6   | 0.01           | 0.0                   | 0.0   | 1.9%                 | 2.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.346             | 1.384  |         | --     |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0623            | 0.2492 | 26.1    | --     |                 | 26.1                     | 26.1  | 0.01           | 0.3                   | 0.3   | 10.8%                | 14.7% |
| OCDF                | 0.0752            | 0.3008 | 11      | --     |                 | 11.0                     | 11.0  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0894            | 0.3576 | 210     | --     |                 | 210.0                    | 210.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.2%  |
| PCB-77              | 0.101             | 0.404  | 40.2    | --     |                 | 40.2                     | 40.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.152             | 0.608  | 2.12    | B      | <5x*B           | 2.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.361             | 1.444  | 184     | --     |                 | 184.0                    | 184.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| PCB-114             | 0.377             | 1.508  | 7.89    | --     |                 | 7.9                      | 7.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.378             | 1.512  | 313     | --     |                 | 313.0                    | 313.0 | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.8%  |
| PCB-123             | 0.429             | 1.716  | 8.23    | --     |                 | 8.2                      | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.176             | 0.704  | 6.67    | --     |                 | 6.7                      | 6.7   | 0.1            | 0.7                   | 0.7   | 27.7%                | 37.7% |
| PCB-156             | 0.503             | 2.012  | 54.4    | --     |                 | 54.4                     | 54.4  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.5%  |
| PCB-157             | 0.52              | 2.08   | 13.2    | --     |                 | 13.2                     | 13.2  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.512             | 2.048  | 26.2    | --     |                 | 26.2                     | 26.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.751             | 3.004  |         | E      |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.129             | 0.516  | 5.99    | --     |                 | 6.0                      | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.0   | 0.7       | 0.7   | 2.5          | 1.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 750               | Fine   | Field   | SE I-8 | SE              | Industrial               |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.907             | 3.628  |         | E      |                 | 0.5                      |        | 0.1      | 0.1                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0582            | 0.2328 | 0.945   | --     |                 | 0.9                      | 0.9    | 1        | 0.9                   | 0.9   | 4.8%                 | 5.2%  |
| 1,2,3,7,8-PeCDF     | 2.18              | 8.72   |         | E      |                 | 1.1                      |        | 0.05     | 0.1                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0971            | 0.3884 | 5.92    | --     |                 | 5.9                      | 5.9    | 0.5      | 3.0                   | 3.0   | 15.7%                | 16.9% |
| 1,2,3,7,8-PeCDD     | 0.129             | 0.516  | 2.27    | --     |                 | 2.3                      | 2.3    | 1        | 2.3                   | 2.3   | 12.2%                | 13.2% |
| 1,2,3,4,7,8-HxCDF   | 1.06              | 4.24   | 9.79    | --     |                 | 9.8                      | 9.8    | 0.1      | 1.0                   | 1.0   | 5.2%                 | 5.6%  |
| 1,2,3,6,7,8-HxCDF   | 13.2              | 52.8   |         | D      |                 | 3.3                      |        | 0.1      | 0.3                   |       | 1.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 1.48              | 5.92   | 10.8    | --     |                 | 10.8                     | 10.8   | 0.1      | 1.1                   | 1.1   | 5.7%                 | 6.2%  |
| 1,2,3,7,8,9-HxCDF   | 1.65              | 6.6    | 3.97    | --     |                 | 4.0                      | 2.0    | 0.1      | 0.4                   | 0.2   | 2.1%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0337            | 0.1348 | 4.7     | --     |                 | 4.7                      | 4.7    | 0.1      | 0.5                   | 0.5   | 2.5%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0284            | 0.1136 | 14      | --     |                 | 14.0                     | 14.0   | 0.1      | 1.4                   | 1.4   | 7.4%                 | 8.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0334            | 0.1336 | 9.13    | J      |                 | 9.1                      | 4.6    | 0.1      | 0.9                   | 0.5   | 4.8%                 | 2.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.11              | 0.44   | 144     | --     |                 | 144.0                    | 144.0  | 0.01     | 1.4                   | 1.4   | 7.7%                 | 8.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.236             | 0.944  | 7.31    | --     |                 | 7.3                      | 7.3    | 0.01     | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.235             | 0.94   | 426     | --     |                 | 426.0                    | 426.0  | 0.01     | 4.3                   | 4.3   | 22.6%                | 24.4% |
| OCDF                | 0.304             | 1.216  | 205     | --     |                 | 205.0                    | 205.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.263             | 1.052  | 3310    | --     |                 | 3310.0                   | 3310.0 | 0.0001   | 0.3                   | 0.3   | 1.8%                 | 1.9%  |
| PCB-77              | 0.0108            | 0.0432 | 3.96    | B      | <5x*B           | 4.0                      | 2.0    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0103            | 0.0412 | 0.155   | B      | <5x*B           | 0.2                      | 0.1    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 7.97              | 31.88  | 875     | CIJ    |                 | 875.0                    | 437.5  | 0.0001   | 0.1                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-114             | 7.8               | 31.2   | 33.5    | I      |                 | 33.5                     | 33.5   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 6.87              | 27.48  | 1800    | CIJ    |                 | 1800.0                   | 900.0  | 0.0001   | 0.2                   | 0.1   | 1.0%                 | 0.5%  |
| PCB-123             | 7.52              | 30.08  |         | I      | <5x*B           | 3.8                      |        | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.13              | 0.52   | 2.52    | --     |                 | 2.5                      | 2.5    | 0.1      | 0.3                   | 0.3   | 1.3%                 | 1.4%  |
| PCB-156             | 2.09              | 8.36   | 532     | CJ     |                 | 532.0                    | 266.0  | 0.0005   | 0.3                   | 0.1   | 1.4%                 | 0.8%  |
| PCB-157             | 2.18              | 8.72   | 111     | --     |                 | 111.0                    | 111.0  | 0.0005   | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| PCB-167             | 1.92              | 7.68   | 278     | --     |                 | 278.0                    | 278.0  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.00642           | 0.0257 | 0.262   | --     |                 | 0.3                      | 0.3    | 0.01     | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-189             | 1.43              | 5.72   | 69.9    | --     |                 | 69.9                     | 69.9   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 18.1              | 17.0  | 1.0       | 0.6   | 19.1         | 17.6  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 400       | Fine              | Field  | SE I-9  | SE   | Industrial      |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0481            | 0.1924 | 0.824   | NJ   |                 | 0.4                      |        | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.253             | 1.012  | 0.577   | I    |                 | 0.6                      | 0.3    | 1              | 0.6                   | 0.3   | 6.8%                 | 4.1%  |
| 1,2,3,7,8-PeCDF     | 0.19              | 0.76   | 0.603   | B    | <5x*B           | 0.6                      | 0.2    | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 2,3,4,7,8-PeCDF     | 0.16              | 0.64   | 2.71    | --   |                 | 2.7                      | 2.7    | 0.5            | 1.4                   | 1.4   | 15.4%                | 18.2% |
| 1,2,3,7,8-PeCDD     | 0.191             | 0.764  | 1.04    | BI   | <5x*B           | 1.0                      | 0.5    | 1              | 1.0                   | 0.5   | 11.4%                | 6.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.507             | 2.028  | 2.6     | --   |                 | 2.6                      | 2.6    | 0.1            | 0.3                   | 0.3   | 3.0%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.526             | 2.104  | 2.71    | D    |                 | 1.4                      |        | 0.1            | 0.1                   |       | 1.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.624             | 2.496  | 3.01    | --   |                 | 3.0                      | 3.0    | 0.1            | 0.3                   | 0.3   | 3.4%                 | 4.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.645             | 2.58   | 0.697   | B    | <5x*B           | 0.7                      | 0.2    | 0.1            | 0.1                   | 0.0   | 0.8%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.107             | 0.428  | 2       | J    |                 | 2.0                      | 1.0    | 0.1            | 0.2                   | 0.1   | 2.3%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0843            | 0.3372 | 5.71    | --   |                 | 5.7                      | 5.7    | 0.1            | 0.6                   | 0.6   | 6.5%                 | 7.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0838            | 0.3352 | 3.02    | J    |                 | 3.0                      | 1.5    | 0.1            | 0.3                   | 0.2   | 3.4%                 | 2.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.42              | 1.68   | 40.7    | --   |                 | 40.7                     | 40.7   | 0.01           | 0.4                   | 0.4   | 4.6%                 | 5.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.63              | 2.52   | 2.61    | --   |                 | 2.6                      | 2.6    | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.415             | 1.66   | 173     | --   |                 | 173.0                    | 173.0  | 0.01           | 1.7                   | 1.7   | 19.7%                | 23.4% |
| OCDF                | 0.0341            | 0.1364 | 155     | --   |                 | 155.0                    | 155.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.037             | 0.148  | 1280    | --   |                 | 1280.0                   | 1280.0 | 0.0001         | 0.1                   | 0.1   | 1.5%                 | 1.7%  |
| PCB-77              | 0.123             | 0.492  | 43.8    | --   |                 | 43.8                     | 43.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.162             | 0.648  | 2.14    | B    | <5x*B           | 2.1                      | 1.1    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.87              | 3.48   | 675     | --   |                 | 675.0                    | 675.0  | 0.0001         | 0.1                   | 0.1   | 0.8%                 | 0.9%  |
| PCB-114             | 0.909             | 3.636  | 29.9    | --   |                 | 29.9                     | 29.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.938             | 3.752  | 1480    | CJ   |                 | 1480.0                   | 740.0  | 0.0001         | 0.1                   | 0.1   | 1.7%                 | 1.0%  |
| PCB-123             | 1.07              | 4.28   | 25.4    | --   |                 | 25.4                     | 25.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.193             | 0.772  | 12.3    | --   |                 | 12.3                     | 12.3   | 0.1            | 1.2                   | 1.2   | 14.0%                | 16.6% |
| PCB-156             | 0.432             | 1.728  | 209     | --   |                 | 209.0                    | 209.0  | 0.0005         | 0.1                   | 0.1   | 1.2%                 | 1.4%  |
| PCB-157             | 0.446             | 1.784  | 57.7    | --   |                 | 57.7                     | 57.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.439             | 1.756  | 102     | --   |                 | 102.0                    | 102.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.239             | 0.956  | 0.774   | --   |                 | 0.8                      | 0.4    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.158             | 0.632  | 13.6    | --   |                 | 13.6                     | 13.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.1               | 5.9   | 1.5       | 1.5   | 8.6          | 7.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 964               | Fine   | Field   | SW I-1 | SW              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0864            | 0.3456 | 0.323   | NJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.00868           | 0.0347 | 0.263   | --     |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 7.0%                 | 7.3%  |
| 1,2,3,7,8-PeCDF     | 0.0718            | 0.2872 | 0.403   | --     |                 | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.0563            | 0.2252 | 0.855   | --     |                 | 0.9                      | 0.9   | 0.5            | 0.5                   | 0.5   | 10.5%                | 10.9% |
| 1,2,3,7,8-PeCDD     | 0.0287            | 0.1148 | 0.69    | --     |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   | 16.3%                | 16.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0524            | 0.2096 | 0.964   | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 2.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0508            | 0.2032 | 1.98    | --     |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 4.6%                 | 4.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.0719            | 0.2876 | 1.3     | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 3.0%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.105             | 0.42   | 0.696   | B      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0227            | 0.0908 | 0.81    | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 1.9%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0207            | 0.0828 | 1.99    | --     |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 4.6%                 | 4.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.0235            | 0.094  | 1.05    | J      |                 | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.6%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.045             | 0.18   | 17.4    | --     |                 | 17.4                     | 17.4  | 0.01           | 0.2                   | 0.2   | 4.0%                 | 4.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.103             | 0.412  | 1.01    | --     |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.14              | 0.56   | 57.6    | --     |                 | 57.6                     | 57.6  | 0.01           | 0.6                   | 0.6   | 13.4%                | 13.9% |
| OCDF                | 0.0992            | 0.3968 | 46      | --     |                 | 46.0                     | 46.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.104             | 0.416  | 486     | --     |                 | 486.0                    | 486.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.2%  |
| PCB-77              | 0.0878            | 0.3512 | 38.5    | --     |                 | 38.5                     | 38.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0896            | 0.3584 | 1.57    | B      | <5x*B           | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.979             | 3.916  | 411     | --     |                 | 411.0                    | 411.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.0%  |
| PCB-114             | 0.966             | 3.864  | 25.6    | --     |                 | 25.6                     | 25.6  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-118             | 0.742             | 2.968  | 874     | CJ     |                 | 874.0                    | 437.0 | 0.0001         | 0.1                   | 0.0   | 2.0%                 | 1.1%  |
| PCB-123             | 0.842             | 3.368  | --      |        |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.382             | 1.528  | 8.58    | --     |                 | 8.6                      | 8.6   | 0.1            | 0.9                   | 0.9   | 20.0%                | 20.8% |
| PCB-156             | 1.22              | 4.88   | 149     | --     |                 | 149.0                    | 149.0 | 0.0005         | 0.1                   | 0.1   | 1.7%                 | 1.8%  |
| PCB-157             | 1.23              | 4.92   | 35.2    | --     |                 | 35.2                     | 35.2  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-167             | 1.17              | 4.68   | 75.7    | J      |                 | 75.7                     | 37.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0628            | 0.2512 | 1.09    | B      | <5x*B           | 1.1                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-189             | 0.193             | 0.772  | 19.8    | --     |                 | 19.8                     | 19.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.2               | 3.1   | 1.1       | 1.0   | 4.3          | 4.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 753               | Fine   | Field   | SW I-2 | SW              | Industrial               |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.646             | 2.584  |         | E      |                 | 0.3                      |       | 0.1      | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.262             | 1.048  |         | E      |                 | 0.1                      |       | 1        | 0.1                   |       | 1.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.58              | 2.32   |         | E      |                 | 0.3                      |       | 0.05     | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0337            | 0.1348 | 1.6     | --     |                 | 1.6                      | 1.6   | 0.5      | 0.8                   | 0.8   | 12.7%                | 13.6% |
| 1,2,3,7,8-PeCDD     | 0.0168            | 0.0672 | 0.826   | --     |                 | 0.8                      | 0.8   | 1        | 0.8                   | 0.8   | 12.7%                | 13.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0824            | 0.3296 | 1.08    | --     |                 | 1.1                      | 1.1   | 0.1      | 0.1                   | 0.1   | 1.7%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0733            | 0.2932 | 1.01    | --     |                 | 1.0                      | 1.0   | 0.1      | 0.1                   | 0.1   | 1.6%                 | 1.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.0976            | 0.3904 | 1.51    | --     |                 | 1.5                      | 1.5   | 0.1      | 0.2                   | 0.2   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.107             | 0.428  | 0.547   | --     |                 | 0.5                      | 0.5   | 0.1      | 0.1                   | 0.1   | 0.8%                 | 0.8%  |
| 1,2,3,4,7,8-HxCDD   | 1.55              | 6.2    |         | E      |                 | 0.8                      |       | 0.1      | 0.1                   |       | 1.3%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0417            | 0.1668 | 2.96    | --     |                 | 3.0                      | 3.0   | 0.1      | 0.3                   | 0.3   | 4.8%                 | 5.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.0437            | 0.1748 | 2.49    | J      |                 | 2.5                      | 1.2   | 0.1      | 0.3                   | 0.1   | 4.0%                 | 2.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0723            | 0.2892 | 18.1    | --     |                 | 18.1                     | 18.1  | 0.01     | 0.2                   | 0.2   | 2.9%                 | 3.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.103             | 0.412  | 1.3     | --     |                 | 1.3                      | 1.3   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0123            | 0.0492 | 83.3    | --     |                 | 83.3                     | 83.3  | 0.01     | 0.8                   | 0.8   | 13.2%                | 14.1% |
| OCDF                | 0.0398            | 0.1592 | 49.3    | J      |                 | 49.3                     | 24.7  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.0505            | 0.202  | 672     | --     |                 | 672.0                    | 672.0 | 0.0001   | 0.1                   | 0.1   | 1.1%                 | 1.1%  |
| PCB-77              | 0.0224            | 0.0896 | 77      | --     |                 | 77.0                     | 77.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0277            | 0.1108 | 2.97    | --     |                 | 3.0                      | 3.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.18              | 8.72   | 394     | --     |                 | 394.0                    | 394.0 | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-114             | 2.28              | 9.12   | 13.2    | --     |                 | 13.2                     | 13.2  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 2.24              | 8.96   | 773     | CJ     |                 | 773.0                    | 386.5 | 0.0001   | 0.1                   | 0.0   | 1.2%                 | 0.7%  |
| PCB-123             | 2.55              | 10.2   | 14.4    | --     |                 | 14.4                     | 14.4  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.384             | 1.536  | 21.6    | --     |                 | 21.6                     | 21.6  | 0.1      | 2.2                   | 2.2   | 34.3%                | 36.6% |
| PCB-156             | 0.301             | 1.204  | 152     | --     |                 | 152.0                    | 152.0 | 0.0005   | 0.1                   | 0.1   | 1.2%                 | 1.3%  |
| PCB-157             | 0.311             | 1.244  | 38.9    | --     |                 | 38.9                     | 38.9  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.306             | 1.224  | 80.4    | --     |                 | 80.4                     | 80.4  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0615            | 0.246  | 2       | --     |                 | 2.0                      | 2.0   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.156             | 0.624  | 20.1    | --     |                 | 20.1                     | 20.1  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.0               | 3.6   | 2.4       | 2.3   | 6.4          | 5.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 265               | Fine   | Field   | SW I-3 | SW              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0206            | 0.0824 | 0.113   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 2,3,7,8-TCDD        | 0.0161            | 0.0644 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.12              | 0.48   |         | E      |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0113            | 0.0452 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.205             | 0.82   |         | E      | <5x*B           | 0.1                      |       | 1              | 0.1                   |       | 23.1%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.129             | 0.516  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.159             | 0.636  |         | E      | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.136             | 0.544  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.274             | 1.096  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0524            | 0.2096 | 0.322   | B      | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 6.9%                 | 8.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.281             | 1.124  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.362             | 1.448  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 4.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0235            | 0.094  | 0.95    | --     |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 2.3%                 | 4.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.132             | 0.528  |         | E      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0506            | 0.2024 | 4.81    | --     |                 | 4.8                      | 4.8   | 0.01           | 0.0                   | 0.0   | 11.1%                | 20.7% |
| OCDF                | 0.0323            | 0.1292 | 1.77    | --     |                 | 1.8                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0355            | 0.142  | 35.9    | --     |                 | 35.9                     | 35.9  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.5%  |
| PCB-77              | 0.0263            | 0.1052 | 6.14    | B      | <5x*B           | 6.1                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0291            | 0.1164 | 0.397   | B      | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.191             | 0.764  | 22.8    | B      | <5x*B           | 22.8                     | 11.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-114             | 0.2               | 0.8    | 1.08    | B      | <5x*B           | 1.1                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.19              | 0.76   | 42.5    | B      | <5x*B           | 42.5                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.9%  |
| PCB-123             | 0.216             | 0.864  | 1.07    | J      |                 | 1.1                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.129             | 0.516  | 1.44    | --     |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 32.4%                | 60.4% |
| PCB-156             | 0.205             | 0.82   | 8.42    | --     |                 | 8.4                      | 8.4   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.8%  |
| PCB-157             | 0.212             | 0.848  | 3.37    | --     |                 | 3.4                      | 3.4   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-167             | 0.208             | 0.832  | 5.63    | --     |                 | 5.6                      | 5.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.214             | 0.856  |         | E      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.0664            | 0.2656 | 1.06    | --     |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.1       | 0.1   | 0.2          | 0.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 106               | Fine   | Field   | SW I-4 | SW              | Industrial               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0636            | 0.2544 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0198            | 0.0792 | 0.0849  | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 8.6%                 | 14.0% |
| 1,2,3,7,8-PeCDF     | 0.0901            | 0.3604 | 0.159   | --     |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.186             | 0.744  |         | E      |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.368             | 1.472  |         | E      |                 | 0.2                      |       | 1              | 0.2                   |       | 17.2%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0349            | 0.1396 | 0.228   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.7%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0322            | 0.1288 | 1.03    | BD     | <5x*B           | 0.5                      |       | 0.1            | 0.1                   |       | 4.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0635            | 0.254  | 0.533   | D      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.356             | 1.424  |         | E      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0394            | 0.1576 | 0.47    | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 7.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0349            | 0.1396 | 0.97    | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 8.6%                 | 14.0% |
| 1,2,3,7,8,9-HxCDD   | 0.402             | 1.608  | 0.556   | J      |                 | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 5.2%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 11.7              | 46.8   |         | D      | <5x*B           | 2.9                      |       | 0.01           | 0.0                   |       | 2.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.15              | 0.6    | 0.585   | --     |                 | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.115             | 0.46   | 32.7    | --     |                 | 32.7                     | 32.7  | 0.01           | 0.3                   | 0.3   | 28.2%                | 45.7% |
| OCDF                | 0.767             | 3.068  | 17.7    | B      | <5x*B           | 17.7                     | 8.9   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| OCDD                | 0.653             | 2.612  | 250     | --     |                 | 250.0                    | 250.0 | 0.0001         | 0.0                   | 0.0   | 2.2%                 | 3.5%  |
| PCB-77              | 0.112             | 0.448  | 4.23    | B      | <5x*B           | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.335             | 1.34   |         | E      | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.36              | 1.44   | 16.7    | B      | <5x*B           | 16.7                     | 8.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 0.355             | 1.42   |         | --     |                 | 0.2                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.3               | 1.2    | 37.6    | B      | <5x*B           | 37.6                     | 18.8  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-123             | 0.341             | 1.364  |         | --     |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.115             | 0.46   | 0.652   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 6.0%                 | 9.8%  |
| PCB-156             | 7.41              | 29.64  |         | E      | <5x*B           | 3.7                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-157             | 0.25              | 1      | 2.11    | B      | <5x*B           | 2.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.237             | 0.948  | 4.02    | BJ     | <5x*B           | 4.0                      | 2.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0446            | 0.1784 | 0.226   | B      | <5x*B           | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.336             | 1.344  |         | --     |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.6   | 0.1       | 0.1   | 1.2          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 876               | Fine   | Field   | SW I-5 | SW              | Industrial               |        |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0808            | 0.3232 | 0.845   | NJ     |                 | 0.4                      |        | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0132            | 0.0528 |         | --     |                 | 0.0                      |        | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 1.1               | 4.4    |         | E      |                 | 0.6                      |        | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0351            | 0.1404 | 3.57    | --     |                 | 3.6                      | 3.6    | 0.5            | 1.8                   | 1.8   | 17.4%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.0369            | 0.1476 | 1.57    | --     |                 | 1.6                      | 1.6    | 1              | 1.6                   | 1.6   | 15.5%                | 16.5% |
| 1,2,3,4,7,8-HxCDF   | 0.112             | 0.448  | 4.58    | --     |                 | 4.6                      | 4.6    | 0.1            | 0.5                   | 0.5   | 4.4%                 | 4.8%  |
| 1,2,3,6,7,8-HxCDF   | 5.48              | 21.92  |         | D      |                 | 1.4                      |        | 0.1            | 0.1                   |       | 1.4%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.156             | 0.624  | 4.07    | --     |                 | 4.1                      | 4.1    | 0.1            | 0.4                   | 0.4   | 4.0%                 | 4.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.253             | 1.012  | 2.05    | --     |                 | 2.1                      | 2.1    | 0.1            | 0.2                   | 0.2   | 2.0%                 | 2.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0754            | 0.3016 | 3.32    | --     |                 | 3.3                      | 3.3    | 0.1            | 0.3                   | 0.3   | 3.2%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.065             | 0.26   | 7.39    | --     |                 | 7.4                      | 7.4    | 0.1            | 0.7                   | 0.7   | 7.1%                 | 7.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0654            | 0.2616 | 4.08    | J      |                 | 4.1                      | 2.0    | 0.1            | 0.4                   | 0.2   | 4.0%                 | 2.1%  |
| 1,2,3,4,6,7,8-HpCDF | 60.7              | 242.8  |         | D      |                 | 15.2                     |        | 0.01           | 0.2                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.354             | 1.416  | 2.17    | --     |                 | 2.2                      | 2.2    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.486             | 1.944  | 184     | --     |                 | 184.0                    | 184.0  | 0.01           | 1.8                   | 1.8   | 17.8%                | 19.0% |
| OCDF                | 0.185             | 0.74   | 37.7    | IJ     |                 | 37.7                     | 18.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.236             | 0.944  | 1540    | I      |                 | 1540.0                   | 1540.0 | 0.0001         | 0.2                   | 0.2   | 1.5%                 | 1.6%  |
| PCB-77              | 0.22              | 0.88   | 89.8    | B      | <5x*B           | 89.8                     | 44.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.188             | 0.752  | 2.49    | B      | <5x*B           | 2.5                      | 1.2    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.28              | 9.12   | 600     | CJ     |                 | 600.0                    | 300.0  | 0.0001         | 0.1                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-114             | 2.23              | 8.92   | 27.9    | --     |                 | 27.9                     | 27.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.79              | 7.16   | 1350    | CJ     |                 | 1350.0                   | 675.0  | 0.0001         | 0.1                   | 0.1   | 1.3%                 | 0.7%  |
| PCB-123             | 1.96              | 7.84   | 23.9    | --     |                 | 23.9                     | 23.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.317             | 1.268  | 16.4    | --     |                 | 16.4                     | 16.4   | 0.1            | 1.6                   | 1.6   | 15.8%                | 17.0% |
| PCB-156             | 0.557             | 2.228  | 217     | --     |                 | 217.0                    | 217.0  | 0.0005         | 0.1                   | 0.1   | 1.0%                 | 1.1%  |
| PCB-157             | 0.579             | 2.316  | 55.9    | --     |                 | 55.9                     | 55.9   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.512             | 2.048  | 97.1    | --     |                 | 97.1                     | 97.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.107             | 0.428  | 0.867   | --     |                 | 0.9                      | 0.9    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.328             | 1.312  | 14.2    | J      |                 | 14.2                     | 7.1    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 8.2               | 7.7   | 1.9       | 1.8   | 10.1         | 9.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 591       | Fine              | Field  | SW I-6  | SW   | Industrial      |                          |        |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0202            | 0.0808 | 0.728   | NJ   |                 | 0.4                      |        | 0.1            | 0.0                   |       | 0.0                  |       | 0.4%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.02              | 0.08   | 0.0533  | --   |                 | 0.1                      | 0.0    | 1              | 0.1                   | 0.0   | 0.0                  | 1.0%  | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0341            | 0.1364 | 0.253   | B    | <5x*B           | 0.3                      | 0.1    | 0.05           | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0287            | 0.1148 | 0.919   | --   |                 | 0.9                      | 0.9    | 0.5            | 0.5                   | 0.5   | 0.5                  | 4.5%  | 4.8%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.513             | 2.052  |         | E    | <5x*B           | 0.3                      |        | 1              | 0.3                   |       |                      | 3.0%  |       |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.485             | 1.94   |         | E    | <5x*B           | 0.2                      |        | 0.1            | 0.0                   |       |                      | 0.2%  |       |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0697            | 0.2788 | 0.8     | --   |                 | 0.8                      | 0.8    | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.8%  | 0.9%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.081             | 0.324  | 0.981   | --   |                 | 1.0                      | 1.0    | 0.1            | 0.1                   | 0.1   | 0.1                  | 1.0%  | 1.1%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0848            | 0.3392 | 0.401   | --   |                 | 0.4                      | 0.4    | 0.1            | 0.0                   | 0.0   | 0.0                  | 0.4%  | 0.4%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0218            | 0.0872 | 0.706   | --   |                 | 0.7                      | 0.7    | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.7%  | 0.7%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0188            | 0.0752 | 1.5     | --   |                 | 1.5                      | 1.5    | 0.1            | 0.2                   | 0.2   | 0.2                  | 1.5%  | 1.6%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.019             | 0.076  | 1.05    | --   |                 | 1.1                      | 1.1    | 0.1            | 0.1                   | 0.1   | 0.1                  | 1.1%  | 1.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.046             | 0.184  | 6.47    | --   |                 | 6.5                      | 6.5    | 0.01           | 0.1                   | 0.1   | 0.1                  | 0.6%  | 0.7%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.076             | 0.304  | 0.421   | --   |                 | 0.4                      | 0.4    | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0536            | 0.2144 | 26.6    | --   |                 | 26.6                     | 26.6   | 0.01           | 0.3                   | 0.3   | 0.3                  | 2.6%  | 2.8%  |       |      |       |      |
| OCDF                | 0.0388            | 0.1552 | 13.6    | --   |                 | 13.6                     | 13.6   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| OCDD                | 0.0502            | 0.2008 | 187     | --   |                 | 187.0                    | 187.0  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.2%  |       |      |       |      |
| PCB-77              | 0.0562            | 0.2248 | 753     | --   |                 | 753.0                    | 753.0  | 0.0001         | 0.1                   | 0.1   | 0.1                  | 0.7%  | 0.8%  |       |      |       |      |
| PCB-81              | 0.0697            | 0.2788 | 29.5    | --   |                 | 29.5                     | 29.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.894             | 3.576  | 1520    | CJ   |                 | 1520.0                   | 760.0  | 0.0001         | 0.2                   | 0.1   | 0.1                  | 1.5%  | 0.8%  |       |      |       |      |
| PCB-114             | 0.941             | 3.764  | 45.4    | --   |                 | 45.4                     | 45.4   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.2%  |       |      |       |      |
| PCB-118             | 1.04              | 4.16   | 2090    | CJ   |                 | 2090.0                   | 1045.0 | 0.0001         | 0.2                   | 0.1   | 0.1                  | 2.1%  | 1.1%  |       |      |       |      |
| PCB-123             | 1.15              | 4.6    | 91      | --   |                 | 91.0                     | 91.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1%  |       |      |       |      |
| PCB-126             | 0.115             | 0.46   | 75.4    | --   |                 | 75.4                     | 75.4   | 0.1            | 7.5                   | 7.5   | 7.5                  | 75.0% | 80.2% |       |      |       |      |
| PCB-156             | 0.777             | 3.108  | 234     | --   |                 | 234.0                    | 234.0  | 0.0005         | 0.1                   | 0.1   | 0.1                  | 1.2%  | 1.2%  |       |      |       |      |
| PCB-157             | 0.812             | 3.248  | 86.5    | --   |                 | 86.5                     | 86.5   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.4%  | 0.5%  |       |      |       |      |
| PCB-167             | 0.776             | 3.104  | 166     | --   |                 | 166.0                    | 166.0  | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.0574            | 0.2296 | 4.55    | --   |                 | 4.6                      | 4.6    | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.5%  | 0.5%  |       |      |       |      |
| PCB-189             | 0.29              | 1.16   | 35      | --   |                 | 35.0                     | 35.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.5   | 8.1       | 7.9   | 10.0         | 9.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 310       | Fine              | Field  | SW I-7  | SW   | Industrial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0532            | 0.2128 | 0.245   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0955            | 0.382  | 0.106   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 3.1%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.204             | 0.816  | 0.279   | B    | <5x*B           | 0.3                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.2%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.175             | 0.7    | 0.497   | --   |                 | 0.5                      | 0.2   | 0.5            | 0.3                   | 0.1   | 7.8%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0696            | 0.2784 | 0.669   | B    | <5x*B           | 0.7                      | 0.3   | 1              | 0.7                   | 0.3   | 21.9%                | 12.4% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.124             | 0.496  | 0.916   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 3.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.114             | 0.456  | 0.906   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 2.1%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.139             | 0.556  | 0.992   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 4.1%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.142             | 0.568  | 0.421   | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.3%                 | 0.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0598            | 0.2392 | 1.7     | J    |                 | 1.7                      | 0.9   | 0.1            | 0.2                   | 0.1   | 5.3%                 | 3.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0682            | 0.2728 | 1.94    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 5.9%                 | 7.9%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0572            | 0.2288 | 1.32    | J    |                 | 1.3                      | 0.7   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 2.9%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.241             | 0.964  | 13      | --   |                 | 13.0                     | 13.0  | 0.01           | 0.1                   | 0.1   | 4.1%                 | 5.4%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.366             | 1.464  | 1.01    | --   |                 | 1.0                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.154             | 0.616  | 56      | --   |                 | 56.0                     | 56.0  | 0.01           | 0.6                   | 0.6   | 17.5%                | 23.2% |      |       |      |       |      |
| OCDF                | 0.0597            | 0.2388 | 48.1    | --   |                 | 48.1                     | 48.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| OCDD                | 0.0672            | 0.2688 | 378     | --   |                 | 378.0                    | 378.0 | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.6%  |      |       |      |       |      |
| PCB-77              | 0.103             | 0.412  | 15.3    | --   |                 | 15.3                     | 15.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.129             | 0.516  | 0.96    | B    | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.499             | 1.996  | 62.4    | --   |                 | 62.4                     | 62.4  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 0.521             | 2.084  | 2.88    | --   |                 | 2.9                      | 2.9   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.498             | 1.992  | 126     | --   |                 | 126.0                    | 126.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |      |       |      |       |      |
| PCB-123             | 0.566             | 2.264  | --      |      |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.146             | 0.584  | 5.2     | --   |                 | 5.2                      | 5.2   | 0.1            | 0.5                   | 0.5   | 16.3%                | 21.6% |      |       |      |       |      |
| PCB-156             | 0.373             | 1.492  | 27.2    | --   |                 | 27.2                     | 27.2  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |       |      |
| PCB-157             | 0.385             | 1.54   | 7.51    | --   |                 | 7.5                      | 7.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 0.379             | 1.516  | 17.6    | --   |                 | 17.6                     | 17.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.113             | 0.452  | 0.879   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |       |      |
| PCB-189             | 0.0823            | 0.3292 | 5.16    | --   |                 | 5.2                      | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.6               | 1.9   | 0.5       | 0.5   | 3.1          | 2.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 739               | Fine   | Field  | NE S-1  | NE    | Open Space      |                          |         |          |       |                       |       |                      |       |       |       |      |       |
|---------------------|-------------------|--------|--------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|
| Analyte             | Analytical Limits |        |        | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |
|                     | EDL               | QL     | Conc   | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0567            | 0.2268 | 0.283  | NJ      |       | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.5%  |       |      |       |
| 2,3,7,8-TCDD        | 0.0121            | 0.0484 | 0.0847 | --      |       | 0.1             | 0.1                      | 1       |          | 0.1   | 0.1                   |       | 5.3%                 |       | 6.2%  |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0263            | 0.1052 | 0.276  | --      |       | 0.3             | 0.3                      | 0.05    |          | 0.0   | 0.0                   |       | 0.8%                 |       | 0.9%  |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0179            | 0.0716 | 0.333  | I       |       | 0.3             | 0.3                      | 0.5     |          | 0.2   | 0.2                   |       | 7.9%                 |       | 9.3%  |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0131            | 0.0524 | 0.483  | --      |       | 0.5             | 0.5                      | 1       |          | 0.5   | 0.5                   |       | 26.3%                |       | 31.0% |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0328            | 0.1312 | 0.404  | --      |       | 0.4             | 0.4                      | 0.1     |          | 0.0   | 0.0                   |       | 2.1%                 |       | 2.5%  |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.032             | 0.128  | 0.401  | --      |       | 0.4             | 0.4                      | 0.1     |          | 0.0   | 0.0                   |       | 2.1%                 |       | 2.5%  |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0442            | 0.1768 | 0.411  | B       | <5x*B | 0.4             | 0.2                      | 0.1     |          | 0.0   | 0.0                   |       | 2.1%                 |       | 1.2%  |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0543            | 0.2172 | 0.518  | B       | <5x*B | 0.5             | 0.3                      | 0.1     |          | 0.1   | 0.0                   |       | 2.6%                 |       | 1.9%  |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0102            | 0.0408 | 0.618  | --      |       | 0.6             | 0.6                      | 0.1     |          | 0.1   | 0.1                   |       | 3.2%                 |       | 3.7%  |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.00904           | 0.0362 | 1.49   | --      |       | 1.5             | 1.5                      | 0.1     |          | 0.2   | 0.2                   |       | 7.9%                 |       | 9.3%  |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.00995           | 0.0398 | 1.44   | J       |       | 1.4             | 0.7                      | 0.1     |          | 0.1   | 0.1                   |       | 7.4%                 |       | 4.3%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 4.93              | 19.72  |        | DI      |       | 1.2             |                          | 0.01    |          | 0.0   |                       |       | 0.6%                 |       |       |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0383            | 0.1532 | 0.312  | --      |       | 0.3             | 0.3                      | 0.01    |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0291            | 0.1164 | 25     | I       |       | 25.0            | 25.0                     | 0.01    |          | 0.3   | 0.3                   |       | 13.1%                |       | 15.5% |       |      |       |
| OCDF                | 0.0181            | 0.0724 | 7.23   | --      |       | 7.2             | 7.2                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| OCDD                | 0.0184            | 0.0736 | 196    | --      |       | 196.0           | 196.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 1.0%                 |       | 1.2%  |       |      |       |
| PCB-77              | 0.0306            | 0.1224 | 16.2   | B       | <5x*B | 16.2            | 8.1                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |      |       |
| PCB-81              | 0.0301            | 0.1204 | 1.02   | BJ      | <5x*B | 1.0             | 0.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-105             | 0.304             | 1.216  | 64.4   | B       | <5x*B | 64.4            | 32.2                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.2%  |       |      |       |
| PCB-114             | 0.318             | 1.272  | 3.8    | --      |       | 3.8             | 3.8                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |      |       |
| PCB-118             | 0.37              | 1.48   | 134    | B       | <5x*B | 134.0           | 67.0                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.7%                 |       | 0.4%  |       |      |       |
| PCB-123             | 0.42              | 1.68   | 3.46   | --      |       | 3.5             | 3.5                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-126             | 0.0812            | 0.3248 | 2.79   | J       |       | 2.8             | 1.4                      | 0.1     |          | 0.3   | 0.1                   |       | 14.7%                |       | 8.7%  |       |      |       |
| PCB-156             | 0.259             | 1.036  | 22     | B       | <5x*B | 22.0            | 11.0                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.6%                 |       | 0.3%  |       |      |       |
| PCB-157             | 0.268             | 1.072  | 6.19   | --      |       | 6.2             | 6.2                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |       |      |       |
| PCB-167             | 0.264             | 1.056  | 11.4   | --      |       | 11.4            | 11.4                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-169             | 0.0117            | 0.0468 | 0.459  | J       |       | 0.5             | 0.2                      | 0.01    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.1%  |       |      |       |
| PCB-189             | 0.0954            | 0.3816 | 2.18   | --      |       | 2.2             | 2.2                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.5   | 0.3       | 0.1   | 1.9          | 1.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 720               | Fine   | Field   | NE S-2 | NE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.13              | 0.52   |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.00317           | 0.0127 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00993           | 0.0397 |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00879           | 0.0352 | 0.226   | --     |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 11.5%                | 14.2% |
| 1,2,3,7,8-PeCDD     | 0.218             | 0.872  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 11.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0273            | 0.1092 | 0.335   | B      | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.4%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0234            | 0.0936 | 0.228   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 2.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.353             | 1.412  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0385            | 0.154  | 0.385   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 5.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0187            | 0.0748 | 0.402   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0168            | 0.0672 | 0.86    | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 10.3%                | 12.8% |
| 1,2,3,7,8,9-HxCDD   | 0.0177            | 0.0708 | 0.447   | J      |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0373            | 0.1492 | 2.33    | --     |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 2.6%                 | 3.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0567            | 0.2268 | 0.24    | --     |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0258            | 0.1032 | 18.5    | --     |                 | 18.5                     | 18.5  | 0.01           | 0.2                   | 0.2   | 21.2%                | 26.3% |
| OCDF                | 0.0453            | 0.1812 | 6.72    | J      |                 | 6.7                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.0619            | 0.2476 | 146     | --     |                 | 146.0                    | 146.0 | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 2.1%  |
| PCB-77              | 0.0152            | 0.0608 | 4.92    | B      | <5x*B           | 4.9                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0175            | 0.07   | 0.415   | --     |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.176             | 0.704  | 21      | BJ     | <5x*B           | 21.0                     | 10.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 1.05              | 4.2    |         | E      | <5x*B           | 0.5                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.187             | 0.748  | 45      | BJ     | <5x*B           | 45.0                     | 22.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-123             | 0.212             | 0.848  | 1.09    | --     |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0609            | 0.2436 | 1.42    | --     |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 16.1%                | 19.9% |
| PCB-156             | 0.225             | 0.9    | 8.68    | B      | <5x*B           | 8.7                      | 4.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 0.233             | 0.932  | 2.64    | B      | <5x*B           | 2.6                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.229             | 0.916  | 5.63    | B      | <5x*B           | 5.6                      | 2.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0365            | 0.146  | 0.307   | B      | <5x*B           | 0.3                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.179             | 0.716  | 1.69    | B      | <5x*B           | 1.7                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.4   | 0.1       | 0.1   | 0.6          | 0.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 551       | Fine              | Field  | NE S-3  | NE   | Open Space      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0498            | 0.1992 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       |       |       |      | 0.0%  |      |
| 2,3,7,8-TCDD        | 0.00341           | 0.0136 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       |       |       |      | 0.0%  |      |
| 1,2,3,7,8-PeCDF     | 0.0156            | 0.0624 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       |       |       |      | 0.0%  |      |
| 2,3,4,7,8-PeCDF     | 0.00896           | 0.0358 | 0.0765  | --   |                 | 0.1                      | 0.1   | 0.5            | 0.1                   | 0.1   | 0.1                  | 12.3% | 25.8% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.242             | 0.968  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       |       |       |      | 24.6% |      |
| 1,2,3,4,7,8-HxCDF   | 0.00762           | 0.0305 | 0.134   | --   |                 | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 2.5%  | 5.2%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.139             | 0.556  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 2.5%  |       |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0102            | 0.0408 | 0.148   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 2.5%  | 5.2%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0113            | 0.0452 | 0.276   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 7.4%  | 5.2%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.00245           | 0.0098 | 0.225   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      | 4.9%  | 10.3% |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.00197           | 0.0079 | 0.172   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      | 4.9%  | 10.3% |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.00225           | 0.009  | 0.199   | J    |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 4.9%  | 5.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 1.01              | 4.04   |         | DI   |                 | 0.3                      |       | 0.01           | 0.0                   |       |                      | 0.7%  |       |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.161             | 0.644  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       |                      | 0.2%  |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.016             | 0.064  | 4.95    | --   |                 | 5.0                      | 5.0   | 0.01           | 0.1                   | 0.1   | 12.3%                | 25.8% |       |       |      |       |      |
| OCDF                | 0.00913           | 0.0365 | 1.76    | --   |                 | 1.8                      | 1.8   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.1%  |       |      |       |      |
| OCDD                | 0.0119            | 0.0476 | 35.2    | --   |                 | 35.2                     | 35.2  | 0.0001         | 0.0                   | 0.0   |                      | 0.9%  | 1.8%  |       |      |       |      |
| PCB-77              | 0.0423            | 0.1692 | 9.4     | B    | <5x*B           | 9.4                      | 4.7   | 0.0001         | 0.0                   | 0.0   |                      | 0.2%  | 0.2%  |       |      |       |      |
| PCB-81              | 0.0435            | 0.174  | 0.697   | BJ   | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.399             | 1.596  | 28.8    | B    | <5x*B           | 28.8                     | 14.4  | 0.0001         | 0.0                   | 0.0   |                      | 0.7%  | 0.7%  |       |      |       |      |
| PCB-114             | 0.417             | 1.668  | 2.29    | --   |                 | 2.3                      | 2.3   | 0.0005         | 0.0                   | 0.0   |                      | 0.3%  | 0.6%  |       |      |       |      |
| PCB-118             | 0.46              | 1.84   | 59.9    | B    | <5x*B           | 59.9                     | 30.0  | 0.0001         | 0.0                   | 0.0   |                      | 1.5%  | 1.5%  |       |      |       |      |
| PCB-123             | 0.522             | 2.088  |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-126             | 1.22              | 4.88   |         | E    | <5x*B           | 0.6                      |       | 0.1            | 0.1                   |       |                      | 14.8% |       |       |      |       |      |
| PCB-156             | 0.363             | 1.452  | 8.2     | B    | <5x*B           | 8.2                      | 4.1   | 0.0005         | 0.0                   | 0.0   |                      | 1.0%  | 1.1%  |       |      |       |      |
| PCB-157             | 0.375             | 1.5    | 2.42    | --   |                 | 2.4                      | 2.4   | 0.0005         | 0.0                   | 0.0   |                      | 0.3%  | 0.6%  |       |      |       |      |
| PCB-167             | 0.369             | 1.476  | 4.37    | --   |                 | 4.4                      | 4.4   | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.022             | 0.088  | 0.186   | J    |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   |                      | 0.5%  | 0.5%  |       |      |       |      |
| PCB-189             | 0.963             | 3.852  |         | E    |                 | 0.5                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.1       | 0.0   | 0.4          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 704               | Fine   | Field   | NE S-4 | NE              | Open Space               |       |          |                       |       |                      |       |  |  |  |  |  |  |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0339            | 0.1356 | 0.517   | BNJ    | <5x*B           | 0.3                      |       | 0.1      | 0.0                   |       | 0.3%                 |       |  |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0567            | 0.2268 | 0.208   | --     |                 | 0.2                      | 0.1   | 1        | 0.2                   | 0.1   | 2.0%                 | 1.1%  |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.319             | 1.276  | 1.15    | --     |                 | 1.2                      | 0.6   | 0.05     | 0.1                   | 0.0   | 0.6%                 | 0.3%  |  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.255             | 1.02   | 10.8    | --     |                 | 10.8                     | 10.8  | 0.5      | 5.4                   | 5.4   | 52.7%                | 56.7% |  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0879            | 0.3516 | 0.801   | --     |                 | 0.8                      | 0.8   | 1        | 0.8                   | 0.8   | 7.8%                 | 8.4%  |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.221             | 0.884  | 1.8     | --     |                 | 1.8                      | 1.8   | 0.1      | 0.2                   | 0.2   | 1.8%                 | 1.9%  |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.193             | 0.772  | 10      | D      |                 | 5.0                      |       | 0.1      |                       | 0.5   |                      | 4.9%  |  |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.24              | 0.96   | 6.13    | --     |                 | 6.1                      | 6.1   | 0.1      | 0.6                   | 0.6   | 6.0%                 | 6.4%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.279             | 1.116  | 1.16    | B      | <5x*B           | 1.2                      | 0.6   | 0.1      | 0.1                   | 0.1   | 1.2%                 | 0.6%  |  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.109             | 0.436  | 1.04    | --     |                 | 1.0                      | 1.0   | 0.1      | 0.1                   | 0.1   | 1.0%                 | 1.1%  |  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0914            | 0.3656 | 2.18    | --     |                 | 2.2                      | 2.2   | 0.1      | 0.2                   | 0.2   | 2.1%                 | 2.3%  |  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0881            | 0.3524 | 1.52    | --     |                 | 1.5                      | 1.5   | 0.1      | 0.2                   | 0.2   | 1.5%                 | 1.6%  |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0702            | 0.2808 | 14.9    | --     |                 | 14.9                     | 14.9  | 0.01     | 0.1                   | 0.1   | 1.5%                 | 1.6%  |  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.113             | 0.452  | 0.959   | --     |                 | 1.0                      | 1.0   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.13              | 0.52   | 51.9    | --     |                 | 51.9                     | 51.9  | 0.01     | 0.5                   | 0.5   | 5.1%                 | 5.5%  |  |  |  |  |  |  |
| OCDF                | 0.226             | 0.904  | 22.5    | --     |                 | 22.5                     | 22.5  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| OCDD                | 0.0995            | 0.398  | 426     | --     |                 | 426.0                    | 426.0 | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.4%  |  |  |  |  |  |  |
| PCB-77              | 0.179             | 0.716  | 50.9    | --     |                 | 50.9                     | 50.9  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |  |  |  |  |  |  |
| PCB-81              | 0.192             | 0.768  | 1.66    | B      | <5x*B           | 1.7                      | 0.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-105             | 1.35              | 5.4    | 228     | --     |                 | 228.0                    | 228.0 | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |  |  |
| PCB-114             | 1.34              | 5.36   | --      |        |                 | 0.7                      |       | 0.0005   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |  |
| PCB-118             | 1.08              | 4.32   | 417     | --     |                 | 417.0                    | 417.0 | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.4%  |  |  |  |  |  |  |
| PCB-123             | 1.21              | 4.84   | --      |        |                 | 0.6                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |  |
| PCB-126             | 0.271             | 1.084  | 9.98    | --     |                 | 10.0                     | 10.0  | 0.1      | 1.0                   | 1.0   | 9.8%                 | 10.5% |  |  |  |  |  |  |
| PCB-156             | 0.377             | 1.508  | 98.1    | --     |                 | 98.1                     | 98.1  | 0.0005   | 0.0                   | 0.0   | 0.5%                 | 0.5%  |  |  |  |  |  |  |
| PCB-157             | 0.397             | 1.588  | 30.4    | --     |                 | 30.4                     | 30.4  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |  |  |  |  |  |  |
| PCB-167             | 0.366             | 1.464  | 53.1    | --     |                 | 53.1                     | 53.1  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |  |
| PCB-169             | 0.159             | 0.636  | 1.07    | --     |                 | 1.1                      | 1.1   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |  |
| PCB-189             | 15.3              | 61.2   | --      | E      |                 | 7.7                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.0               | 8.3   | 1.0       | 1.0   | 10.0         | 9.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 808               | Fine   | Field   | NE S-5 | NE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00133           | 0.0053 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0136            | 0.0544 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0112            | 0.0448 |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00981           | 0.0392 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00339           | 0.0136 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0158            | 0.0632 |         | --     | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0968            | 0.3872 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0171            | 0.0684 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0209            | 0.0836 | 0.295   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 49.7%                | 90.2% |
| 1,2,3,4,7,8-HxCDD   | 0.238             | 0.952  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 16.6%                |       |
| 1,2,3,6,7,8-HxCDD   | 0.00884           | 0.0354 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00959           | 0.0384 |         | J      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0176            | 0.0704 | 0.116   | B      | <5x*B           | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 1.7%                 | 3.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.028             | 0.112  |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.715             | 2.86   |         | E      | <5x*B           | 0.4                      |       | 0.01           | 0.0                   |       | 6.6%                 |       |
| OCDF                | 0.033             | 0.132  | 0.316   | J      |                 | 0.3                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.021             | 0.084  | 4.22    | --     |                 | 4.2                      | 4.2   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.3%  |
| PCB-77              | 0.0205            | 0.082  | 1.65    | B      | <5x*B           | 1.7                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-81              | 0.0245            | 0.098  | 0.389   | --     |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-105             | 0.129             | 0.516  | 7.39    | B      | <5x*B           | 7.4                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.1%  |
| PCB-114             | 0.134             | 0.536  |         | --     | <5x*B           | 0.1                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 0.131             | 0.524  | 16.5    | B      | <5x*B           | 16.5                     | 8.3   | 0.0001         | 0.0                   | 0.0   | 2.7%                 | 2.5%  |
| PCB-123             | 0.149             | 0.596  |         | --     |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.126             | 0.504  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 16.6%                |       |
| PCB-156             | 0.144             | 0.576  | 1.89    | B      | <5x*B           | 1.9                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 1.4%  |
| PCB-157             | 0.149             | 0.596  | 0.464   | B      | <5x*B           | 0.5                      | 0.1   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-167             | 0.147             | 0.588  | 0.77    | B      | <5x*B           | 0.8                      | 0.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.137             | 0.548  |         | E      | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 1.7%                 |       |
| PCB-189             | 0.114             | 0.456  | 0.26    | B      | <5x*B           | 0.3                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.0       | 0.0   | 0.0          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 710               | Fine   | Field   | NE S-6 | NE              | Open Space               | Changed from SW R-11 (Residential) to NE S-6 (Open Space) based on field notes; erroneously labelled in DRAFT. |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0645            | 0.258  | 0.163   | NJ     |                 | 0.1                      |  | 0.1      | 0.0                   |       | 2.1%                 |       |
| 2,3,7,8-TCDD        | 0.003             | 0.012  |         | --     |                 | 0.0                      |  | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0163            | 0.0652 | 0.182   | --     |                 | 0.2                      | 0.2  | 0.05     | 0.0                   | 0.0   | 2.1%                 | 3.9%  |
| 2,3,4,7,8-PeCDF     | 0.175             | 0.7    |         | E      |                 | 0.1                      |  | 0.5      | 0.1                   |       | 10.6%                |       |
| 1,2,3,7,8-PeCDD     | 0.0181            | 0.0724 |         | --     |                 | 0.0                      |  | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.252             | 1.008  |         | E      |                 | 0.1                      |  | 0.1      | 0.0                   |       | 2.1%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0347            | 0.1388 | 0.259   | --     |                 | 0.3                      | 0.3  | 0.1      | 0.0                   | 0.0   | 6.4%                 | 11.7% |
| 2,3,4,6,7,8-HxCDF   | 0.0466            | 0.1864 | 0.226   | B      | <5x*B           | 0.2                      | 0.1  | 0.1      | 0.0                   | 0.0   | 4.2%                 | 3.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.47              | 1.88   |         | E      | <5x*B           | 0.2                      |  | 0.1      | 0.0                   |       | 4.2%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.314             | 1.256  |         | E      |                 | 0.2                      |  | 0.1      | 0.0                   |       | 4.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0151            | 0.0604 | 0.506   | --     |                 | 0.5                      | 0.5  | 0.1      | 0.1                   | 0.1   | 10.6%                | 19.5% |
| 1,2,3,7,8,9-HxCDD   | 0.357             | 1.428  |         | EJ     |                 | 0.2                      |  | 0.1      | 0.0                   |       | 4.2%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.05              | 8.2    |         | DI     |                 | 0.5                      |  | 0.01     | 0.0                   |       | 1.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0355            | 0.142  | 0.218   | --     |                 | 0.2                      | 0.2  | 0.01     | 0.0                   | 0.0   | 0.4%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0414            | 0.1656 | 7.69    | I      |                 | 7.7                      | 7.7  | 0.01     | 0.1                   | 0.1   | 16.3%                | 30.0% |
| OCDF                | 0.0153            | 0.0612 | 3.99    | --     |                 | 4.0                      | 4.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0204            | 0.0816 | 60.3    | --     |                 | 60.3                     | 60.3   | 0.0001   | 0.0                   | 0.0   | 1.3%                 | 2.4%  |
| PCB-77              | 0.018             | 0.072  | 11      | B      | <5x*B           | 11.0                     | 5.5  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.0174            | 0.0696 | 0.933   | BJ     | <5x*B           | 0.9                      | 0.5  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.202             | 0.808  | 32.5    | B      | <5x*B           | 32.5                     | 16.3   | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-114             | 0.211             | 0.844  | 2.07    | --     |                 | 2.1                      | 2.1  | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-118             | 0.241             | 0.964  | 63.7    | B      | <5x*B           | 63.7                     | 31.9   | 0.0001   | 0.0                   | 0.0   | 1.4%                 | 1.2%  |
| PCB-123             | 0.273             | 1.092  | 1.35    | --     |                 | 1.4                      | 1.4  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 0.134             | 0.536  | 1.15    | BJ     | <5x*B           | 1.2                      | 0.6  | 0.1      | 0.1                   | 0.1   | 25.5%                | 23.4% |
| PCB-156             | 0.178             | 0.712  | 8.63    | B      | <5x*B           | 8.6                      | 4.3  | 0.0005   | 0.0                   | 0.0   | 0.9%                 | 0.8%  |
| PCB-157             | 0.184             | 0.736  | 2.37    | --     |                 | 2.4                      | 2.4  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-167             | 0.181             | 0.724  | 4.33    | --     |                 | 4.3                      | 4.3  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0296            | 0.1184 | 0.263   | J      |                 | 0.3                      | 0.1  | 0.01     | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-189             | 0.0712            | 0.2848 | 0.906   | --     |                 | 0.9                      | 0.9  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.1       | 0.1   | 0.4          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 804               | Fine   | Field   | NE S-7 | NE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.146             | 0.584  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 0.0431            | 0.1724 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.132             | 0.528  |         | E      | <5x*B           | 0.1                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |
| 2,3,4,7,8-PeCDF     | 0.218             | 0.872  |         | --     |                 | 0.1                      |       | 0.5            | 0.1                   |       | 6.9%                 |       |
| 1,2,3,7,8-PeCDD     | 0.232             | 0.928  |         | E      | <5x*B           | 0.1                      |       | 1              | 0.1                   |       | 13.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0416            | 0.1664 | 0.242   | B      | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0363            | 0.1452 | 0.282   | D      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.257             | 1.028  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.31              | 1.24   |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.352             | 1.408  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0121            | 0.0484 | 0.544   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 6.9%                 | 10.9% |
| 1,2,3,7,8,9-HxCDD   | 0.364             | 1.456  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0416            | 0.1664 | 2.21    | --     |                 | 2.2                      | 2.2   | 0.01           | 0.0                   | 0.0   | 3.0%                 | 4.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0598            | 0.2392 | 0.197   | --     |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0381            | 0.1524 | 10.9    | --     |                 | 10.9                     | 10.9  | 0.01           | 0.1                   | 0.1   | 15.0%                | 23.7% |
| OCDF                | 0.0489            | 0.1956 | 5.95    | --     |                 | 6.0                      | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0327            | 0.1308 | 91.6    | --     |                 | 91.6                     | 91.6  | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 2.0%  |
| PCB-77              | 0.0499            | 0.1996 | 10.1    | B      | <5x*B           | 10.1                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0559            | 0.2236 | 0.658   | B      | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.232             | 0.928  | 42.6    | B      | <5x*B           | 42.6                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-114             | 0.245             | 0.98   | 3.06    | B      | <5x*B           | 3.1                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.268             | 1.072  | 91.6    | B      | <5x*B           | 91.6                     | 45.8  | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.0%  |
| PCB-123             | 0.295             | 1.18   | 2.1     | --     |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.192             | 0.768  | 2.44    | --     |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 33.0%                | 52.3% |
| PCB-156             | 0.222             | 0.888  | 14.4    | B      | <5x*B           | 14.4                     | 7.2   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-157             | 0.232             | 0.928  | 4.19    | --     |                 | 4.2                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-167             | 0.222             | 0.888  | 7.89    | B      | <5x*B           | 7.9                      | 3.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0425            | 0.17   | 0.335   | --     |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-189             | 0.195             | 0.78   | 2.54    | --     |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.2       | 0.2   | 0.6          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 656               | Fine   | Field | NW S-1  | NW    | Open Space      |                          |       |          |       |                       |       |                      |       |       |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|-------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |
| 2,3,7,8-TCDF        | 0.0904            | 0.3616 | 0.22  | NJ      |       |                 | 0.1                      |       | 0.1      | 0.0   |                       |       | 0.5%                 |       |       |  |  |
| 2,3,7,8-TCDD        | 0.0213            | 0.0852 |       | --      |       |                 | 0.0                      |       | 1        | 0.0   |                       |       | 0.0%                 |       |       |  |  |
| 1,2,3,7,8-PeCDF     | 0.31              | 1.24   |       | E       |       |                 | 0.2                      |       | 0.05     | 0.0   |                       |       | 0.5%                 |       |       |  |  |
| 2,3,4,7,8-PeCDF     | 0.027             | 0.108  | 0.54  | --      |       |                 | 0.5                      | 0.5   | 0.5      | 0.3   | 0.3                   |       | 13.0%                |       | 14.3% |  |  |
| 1,2,3,7,8-PeCDD     | 0.037             | 0.148  | 0.407 | --      |       |                 | 0.4                      | 0.4   | 1        | 0.4   | 0.4                   |       | 20.7%                |       | 22.9% |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.0457            | 0.1828 | 0.613 | --      |       |                 | 0.6                      | 0.6   | 0.1      | 0.1   | 0.1                   |       | 3.1%                 |       | 3.4%  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.951             | 3.804  |       | D       |       |                 | 0.2                      |       | 0.1      | 0.0   |                       |       | 1.0%                 |       |       |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0547            | 0.2188 | 0.647 | --      |       |                 | 0.6                      | 0.6   | 0.1      | 0.1   | 0.1                   |       | 3.1%                 |       | 3.4%  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0911            | 0.3644 | 0.499 | --      |       |                 | 0.5                      | 0.5   | 0.1      | 0.1   | 0.1                   |       | 2.6%                 |       | 2.9%  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0483            | 0.1932 | 0.661 | --      |       |                 | 0.7                      | 0.7   | 0.1      | 0.1   | 0.1                   |       | 3.6%                 |       | 4.0%  |  |  |
| 1,2,3,6,7,8-HxCDD   | 1.12              | 4.48   |       | E       |       |                 | 0.6                      |       | 0.1      | 0.1   |                       |       | 3.1%                 |       |       |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0417            | 0.1668 | 0.809 | J       |       |                 | 0.8                      | 0.4   | 0.1      | 0.1   | 0.0                   |       | 4.1%                 |       | 2.3%  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 9.71              | 38.84  |       | D       |       |                 | 2.4                      |       | 0.01     | 0.0   |                       |       | 1.2%                 |       |       |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.286             | 1.144  |       | --      |       |                 | 0.1                      |       | 0.01     | 0.0   |                       |       | 0.1%                 |       |       |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.155             | 0.62   | 25.5  | --      |       |                 | 25.5                     | 25.5  | 0.01     | 0.3   | 0.3                   |       | 13.2%                |       | 14.6% |  |  |
| OCDF                | 0.153             | 0.612  | 16.2  | IJ      |       |                 | 16.2                     | 8.1   | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.0%  |  |  |
| OCDD                | 0.0568            | 0.2272 | 156   | I       |       |                 | 156.0                    | 156.0 | 0.0001   | 0.0   | 0.0                   |       | 0.8%                 |       | 0.9%  |  |  |
| PCB-77              | 0.125             | 0.5    | 25    | B       | <5x*B |                 | 25.0                     | 12.5  | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |
| PCB-81              | 0.107             | 0.428  | 0.846 | B       | <5x*B |                 | 0.8                      | 0.4   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |
| PCB-105             | 0.515             | 2.06   | 130   | --      |       |                 | 130.0                    | 130.0 | 0.0001   | 0.0   | 0.0                   |       | 0.7%                 |       | 0.7%  |  |  |
| PCB-114             | 0.505             | 2.02   | 5.55  | --      |       |                 | 5.6                      | 5.6   | 0.0005   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.2%  |  |  |
| PCB-118             | 0.422             | 1.688  | 233   | J       |       |                 | 233.0                    | 116.5 | 0.0001   | 0.0   | 0.0                   |       | 1.2%                 |       | 0.7%  |  |  |
| PCB-123             | 0.462             | 1.848  | 4.26  | --      |       |                 | 4.3                      | 4.3   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |
| PCB-126             | 0.442             | 1.768  | 4.79  | --      |       |                 | 4.8                      | 4.8   | 0.1      | 0.5   | 0.5                   |       | 24.9%                |       | 27.4% |  |  |
| PCB-156             | 0.19              | 0.76   | 51.2  | --      |       |                 | 51.2                     | 51.2  | 0.0005   | 0.0   | 0.0                   |       | 1.3%                 |       | 1.5%  |  |  |
| PCB-157             | 0.198             | 0.792  | 12.5  | --      |       |                 | 12.5                     | 12.5  | 0.0005   | 0.0   | 0.0                   |       | 0.3%                 |       | 0.4%  |  |  |
| PCB-167             | 0.175             | 0.7    | 25    | --      |       |                 | 25.0                     | 25.0  | 0.00001  | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |
| PCB-169             | 0.0943            | 0.3772 | 0.611 | --      |       |                 | 0.6                      | 0.6   | 0.01     | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |  |  |
| PCB-189             | 0.289             | 1.156  | 6.94  | J       |       |                 | 6.9                      | 3.5   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.4   | 0.5       | 0.5   | 2.1          | 1.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 468               | Fine   | Field   | NW S-10 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.292             | 1.168  |         | E       |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.0666            | 0.2664 |         | --      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.105             | 0.42   | 0.211   | --      |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.311             | 1.244  |         | E       |                 | 0.2                      |       | 0.5            | 0.1                   |       | 8.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0664            | 0.2656 | 0.35    | --      |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 32.5%                | 38.8% |
| 1,2,3,4,7,8-HxCDF   | 0.122             | 0.488  | 0.309   | B       | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 1.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.475             | 1.9    |         | D       |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.132             | 0.528  | 0.345   | --      |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 1.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.133             | 0.532  | 0.333   | B       | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 1.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0923            | 0.3692 | 0.426   | --      |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0748            | 0.2992 | 0.523   | --      |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 4.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.0732            | 0.2928 | 0.538   | --      |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 4.8%  |
| 1,2,3,4,6,7,8-HpCDF | 2.76              | 11.04  |         | DJ      | <5x*B           | 0.7                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.284             | 1.136  |         | E       |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.042             | 0.168  | 11.8    | --      |                 | 11.8                     | 11.8  | 0.01           | 0.1                   | 0.1   | 9.6%                 | 11.4% |
| OCDF                | 0.0815            | 0.326  | 5.37    | --      |                 | 5.4                      | 5.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0505            | 0.202  | 76.2    | --      |                 | 76.2                     | 76.2  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-77              | 0.117             | 0.468  | 10.1    | B       | <5x*B           | 10.1                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.114             | 0.456  | 0.599   | --      |                 | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.41              | 1.64   | 48.3    | B       | <5x*B           | 48.3                     | 24.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-114             | 0.408             | 1.632  | 2.6     | B       | <5x*B           | 2.6                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.339             | 1.356  | 108     | B       | <5x*B           | 108.0                    | 54.0  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.5%  |
| PCB-123             | 0.382             | 1.528  |         | --      |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.178             | 0.712  | 3.03    | --      |                 | 3.0                      | 3.0   | 0.1            | 0.3                   | 0.3   | 24.4%                | 29.1% |
| PCB-156             | 0.249             | 0.996  | 17.8    | B       | <5x*B           | 17.8                     | 8.9   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-157             | 0.263             | 1.052  | 5.87    | B       | <5x*B           | 5.9                      | 2.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.242             | 0.968  | 12.2    | J       |                 | 12.2                     | 6.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0667            | 0.2668 | 0.496   | --      |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.422             | 1.688  | 2.51    | I       |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.7   | 0.3       | 0.3   | 1.1          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 526       | Fine              | Field  | NW S-11 | NW   | Open Space      |                          |         |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|---------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant   |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0877            | 0.3508 | 1.77    | NJ   |                 | 0.9                      |         | 0.1            | 0.1                   |       |                      |       | 0.3% |       |      |       |      |
| 2,3,7,8-TCDD        | 0.25              | 1      |         | E    |                 | 0.1                      |         | 1              | 0.1                   |       |                      |       | 0.4% |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0704            | 0.2816 | 0.712   | --   |                 | 0.7                      | 0.7     | 0.05           | 0.0                   | 0.0   |                      | 0.1%  | 0.2% |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0444            | 0.1776 | 1.7     | --   |                 | 1.7                      | 1.7     | 0.5            | 0.9                   | 0.9   | 0.9                  | 3.0%  | 5.3% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0382            | 0.1528 | 0.942   | --   |                 | 0.9                      | 0.9     | 1              | 0.9                   | 0.9   | 0.9                  | 3.2%  | 5.6% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.114             | 0.456  | 4.48    | --   |                 | 4.5                      | 4.5     | 0.1            | 0.5                   | 0.5   | 0.5                  | 1.6%  | 2.8% |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.105             | 0.42   | 2.41    | --   |                 | 2.4                      | 2.4     | 0.1            | 0.2                   | 0.2   | 0.2                  | 0.9%  | 1.5% |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.136             | 0.544  | 3.24    | --   |                 | 3.2                      | 3.2     | 0.1            | 0.3                   | 0.3   | 0.3                  | 1.1%  | 2.0% |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.164             | 0.656  | 1.1     | B    | <5x*B           | 1.1                      | 0.6     | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.4%  | 0.4% |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0558            | 0.2232 | 1.23    | --   |                 | 1.2                      | 1.2     | 0.1            | 0.1                   | 0.1   | 0.1                  | 0.4%  | 0.8% |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0411            | 0.1644 | 2.88    | --   |                 | 2.9                      | 2.9     | 0.1            | 0.3                   | 0.3   | 0.3                  | 1.0%  | 1.8% |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0486            | 0.1944 | 2.03    | J    |                 | 2.0                      | 1.0     | 0.1            | 0.2                   | 0.1   | 0.1                  | 0.7%  | 0.6% |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.101             | 0.404  | 11      | --   |                 | 11.0                     | 11.0    | 0.01           | 0.1                   | 0.1   | 0.1                  | 0.4%  | 0.7% |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.167             | 0.668  | 1.9     | --   |                 | 1.9                      | 1.9     | 0.01           | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1% |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0808            | 0.3232 | 56.9    | --   |                 | 56.9                     | 56.9    | 0.01           | 0.6                   | 0.6   | 0.6                  | 2.0%  | 3.6% |       |      |       |      |
| OCDF                | 0.0343            | 0.1372 | 18.5    | J    |                 | 18.5                     | 9.3     | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0% |       |      |       |      |
| OCDD                | 0.0269            | 0.1076 | 417     | --   |                 | 417.0                    | 417.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.3% |       |      |       |      |
| PCB-77              | 0.168             | 0.672  | 534     | CJ   |                 | 534.0                    | 267.0   | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-81              | 0.174             | 0.696  | 10.7    | --   |                 | 10.7                     | 10.7    | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0% |       |      |       |      |
| PCB-105             | 73.6              | 294.4  | 19000   | SJ   |                 | 19000.0                  | 9500.0  | 0.0001         | 1.9                   | 1.0   | 6.8%                 | 6.0%  |      |       |      |       |      |
| PCB-114             | 76.9              | 307.6  | 1140    | CJ   |                 | 1140.0                   | 570.0   | 0.0005         | 0.6                   | 0.3   | 2.0%                 | 1.8%  |      |       |      |       |      |
| PCB-118             | 91.7              | 366.8  | 27100   | SJ   |                 | 27100.0                  | 13550.0 | 0.0001         | 2.7                   | 1.4   | 9.7%                 | 8.5%  |      |       |      |       |      |
| PCB-123             | 104               | 416    | 1140    | CJ   |                 | 1140.0                   | 570.0   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-126             | 11                | 44     | 139     | J    |                 | 139.0                    | 69.5    | 0.1            | 13.9                  | 7.0   | 49.5%                | 43.6% |      |       |      |       |      |
| PCB-156             | 3.18              | 12.72  | 6800    | CJ   |                 | 6800.0                   | 3400.0  | 0.0005         | 3.4                   | 1.7   | 12.1%                | 10.7% |      |       |      |       |      |
| PCB-157             | 3.29              | 13.16  | 1790    | CJ   |                 | 1790.0                   | 895.0   | 0.0005         | 0.9                   | 0.4   | 3.2%                 | 2.8%  |      |       |      |       |      |
| PCB-167             | 3.23              | 12.92  | 2620    | CJ   |                 | 2620.0                   | 1310.0  | 0.00001        | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-169             | 0.247             | 0.988  | 3.19    | J    |                 | 3.2                      | 1.6     | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-189             | 0.421             | 1.684  | 272     | --   |                 | 272.0                    | 272.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.4               | 4.1   | 23.6      | 11.9  | 28.0         | 16.0  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 301       | Fine              | Field  | NW S-12 | NW   | Open Space      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0342            | 0.1368 | 0.208   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.3%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0125            | 0.05   |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.026             | 0.104  |         | --   | <5x*B           | 0.0                      |       | 0.05           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.198             | 0.792  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       |                      |       | 6.5%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.376             | 1.504  |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       |                      |       | 26.1% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0532            | 0.2128 | 0.264   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      |       | 3.9%  | 2.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0452            | 0.1808 | 0.315   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   |                      |       | 3.9%  | 6.9%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0551            | 0.2204 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.403             | 1.612  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 2.6%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.27              | 1.08   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.3%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0539            | 0.2156 | 0.51    | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  |       | 6.5%  | 11.5% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0534            | 0.2136 | 0.366   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 0.0                  |       | 5.2%  | 9.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0459            | 0.1836 | 1.29    | B    | <5x*B           | 1.3                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.0                  |       | 1.7%  | 1.4%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0757            | 0.3028 | 0.191   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0                  |       | 0.3%  | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0992            | 0.3968 | 7.67    | --   |                 | 7.7                      | 7.7   | 0.01           | 0.1                   | 0.1   | 0.1                  |       | 10.1% | 17.6% |      |       |      |
| OCDF                | 0.0959            | 0.3836 | 2.51    | --   |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  | 0.1%  |      |       |      |
| OCDD                | 0.143             | 0.572  | 47.1    | --   |                 | 47.1                     | 47.1  | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.6%  | 1.1%  |      |       |      |
| PCB-77              | 0.0485            | 0.194  | 11.5    | B    | <5x*B           | 11.5                     | 5.8   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.2%  | 0.1%  |      |       |      |
| PCB-81              | 0.0533            | 0.2132 | 0.675   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  | 0.0%  |      |       |      |
| PCB-105             | 0.339             | 1.356  | 40.3    | B    | <5x*B           | 40.3                     | 20.2  | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.5%  | 0.5%  |      |       |      |
| PCB-114             | 0.357             | 1.428  | 2.26    | B    | <5x*B           | 2.3                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 0.2%  | 0.1%  |      |       |      |
| PCB-118             | 0.397             | 1.588  | 89.3    | B    | <5x*B           | 89.3                     | 44.7  | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 1.2%  | 1.0%  |      |       |      |
| PCB-123             | 2.28              | 9.12   |         | E    |                 | 1.1                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.0868            | 0.3472 | 2.04    | --   |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 0.2                  |       | 26.1% | 45.8% |      |       |      |
| PCB-156             | 0.422             | 1.688  | 14.4    | B    | <5x*B           | 14.4                     | 7.2   | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 0.9%  | 0.8%  |      |       |      |
| PCB-157             | 0.441             | 1.764  | 3.99    | --   |                 | 4.0                      | 4.0   | 0.0005         | 0.0                   | 0.0   | 0.0                  |       | 0.3%  | 0.5%  |      |       |      |
| PCB-167             | 0.422             | 1.688  | 8.23    | B    | <5x*B           | 8.2                      | 4.1   | 0.00001        | 0.0                   | 0.0   | 0.0                  |       | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.0823            | 0.3292 | 0.362   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.0                  |       | 0.5%  | 0.9%  |      |       |      |
| PCB-189             | 0.514             | 2.056  | 2.05    | --   |                 | 2.1                      | 1.0   | 0.0001         | 0.0                   | 0.0   | 0.0                  |       | 0.0%  | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.2   | 0.2       | 0.2   | 0.7          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 464               | Fine   | Field   | NW S-2 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0648            | 0.2592 | 0.421   | BNJ    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.0781            | 0.3124 | 0.107   | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 4.2%                 | 6.4%  |
| 1,2,3,7,8-PeCDF     | 0.108             | 0.432  | 0.391   | --     |                 | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.0972            | 0.3888 | 0.566   | --     |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 12.5%                | 19.2% |
| 1,2,3,7,8-PeCDD     | 0.461             | 1.844  |         | E      |                 | 0.2                      |       | 1              | 0.2                   |       | 8.4%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.149             | 0.596  | 0.53    | --     |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.1%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.138             | 0.552  | 0.645   | BD     | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.156             | 0.624  | 0.658   | B      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 1.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.393             | 1.572  |         | E      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0661            | 0.2644 | 0.511   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.1%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0588            | 0.2352 | 0.957   | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 6.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0555            | 0.222  | 0.783   | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 3.3%                 | 5.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0712            | 0.2848 | 5.85    | --     |                 | 5.9                      | 5.9   | 0.01           | 0.1                   | 0.1   | 2.5%                 | 3.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0866            | 0.3464 | 0.386   | --     |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0645            | 0.258  | 20.1    | --     |                 | 20.1                     | 20.1  | 0.01           | 0.2                   | 0.2   | 8.4%                 | 12.9% |
| OCDF                | 0.0514            | 0.2056 | 11.8    | --     |                 | 11.8                     | 11.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0546            | 0.2184 | 145     | --     |                 | 145.0                    | 145.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-77              | 0.206             | 0.824  | 39.2    | --     |                 | 39.2                     | 39.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-81              | 0.229             | 0.916  | 1.34    | B      | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.682             | 2.728  | 129     | --     |                 | 129.0                    | 129.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-114             | 0.678             | 2.712  | 5.3     | --     |                 | 5.3                      | 5.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.536             | 2.144  | 261     | I      |                 | 261.0                    | 261.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.7%  |
| PCB-123             | 0.602             | 2.408  |         | I      |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.178             | 0.712  | 9.93    | J      |                 | 9.9                      | 5.0   | 0.1            | 1.0                   | 0.5   | 41.4%                | 32.1% |
| PCB-156             | 0.495             | 1.98   | 46.7    | --     |                 | 46.7                     | 46.7  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| PCB-157             | 13.8              | 55.2   |         | E      |                 | 6.9                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.481             | 1.924  | 29.4    | --     |                 | 29.4                     | 29.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.15              | 0.6    | 0.955   | --     |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-189             | 0.842             | 3.368  | 7.33    | --     |                 | 7.3                      | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 1.0   | 1.0       | 0.5   | 2.4          | 1.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 262               | Fine   | Field   | NW S-3 | NW              | Open Space               |        |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.223             | 0.892  | 1.46    | NJ     |                 | 0.7                      |        | 0.1            | 0.1                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0907            | 0.3628 |         | --     |                 | 0.0                      |        | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.166             | 0.664  | 0.896   | B      | <5x*B           | 0.9                      | 0.4    | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 2,3,4,7,8-PeCDF     | 0.232             | 0.928  | 1.23    | --     |                 | 1.2                      | 1.2    | 0.5            | 0.6                   | 0.6   | 4.1%                 | 4.4%  |
| 1,2,3,7,8-PeCDD     | 0.113             | 0.452  | 2.02    | --     |                 | 2.0                      | 2.0    | 1              | 2.0                   | 2.0   | 13.7%                | 14.8% |
| 1,2,3,4,7,8-HxCDF   | 1.22              | 4.88   |         | --     |                 | 0.6                      |        | 0.1            | 0.1                   |       | 0.4%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.119             | 0.476  | 2.39    | D      |                 | 1.2                      |        | 0.1            | 0.1                   |       | 0.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.23              | 0.92   | 1.43    | B      | <5x*B           | 1.4                      | 0.7    | 0.1            | 0.1                   | 0.1   | 1.0%                 | 0.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.263             | 1.052  | 0.77    | B      | <5x*B           | 0.8                      | 0.2    | 0.1            | 0.1                   | 0.0   | 0.5%                 | 0.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0888            | 0.3552 | 2.8     | --     |                 | 2.8                      | 2.8    | 0.1            | 0.3                   | 0.3   | 1.9%                 | 2.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0772            | 0.3088 | 11.1    | --     |                 | 11.1                     | 11.1   | 0.1            | 1.1                   | 1.1   | 7.6%                 | 8.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0901            | 0.3604 | 6.19    | --     |                 | 6.2                      | 6.2    | 0.1            | 0.6                   | 0.6   | 4.3%                 | 4.6%  |
| 1,2,3,4,6,7,8-HpCDF | 22.5              | 90     |         | D      | <5x*B           | 5.6                      |        | 0.01           | 0.1                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.235             | 0.94   | 1.41    | --     |                 | 1.4                      | 1.4    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.239             | 0.956  | 335     | --     |                 | 335.0                    | 335.0  | 0.01           | 3.4                   | 3.4   | 23.0%                | 24.7% |
| OCDF                | 0.31              | 1.24   | 35.3    | --     |                 | 35.3                     | 35.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.49              | 1.96   | 1490    | CJ     |                 | 1490.0                   | 745.0  | 0.0001         | 0.1                   | 0.1   | 1.0%                 | 0.6%  |
| PCB-77              | 2.17              | 8.68   | 238     | --     |                 | 238.0                    | 238.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 1.95              | 7.8    | 4.96    | I      |                 | 5.0                      | 2.5    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 9.72              | 38.88  | 1960    | CJ     |                 | 1960.0                   | 980.0  | 0.0001         | 0.2                   | 0.1   | 1.3%                 | 0.7%  |
| PCB-114             | 9.88              | 39.52  | 60.1    | --     |                 | 60.1                     | 60.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 7.72              | 30.88  | 3420    | CJ     |                 | 3420.0                   | 1710.0 | 0.0001         | 0.3                   | 0.2   | 2.3%                 | 1.3%  |
| PCB-123             | 9                 | 36     | 126     | --     |                 | 126.0                    | 126.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 0.402             | 1.608  | 46.7    | --     |                 | 46.7                     | 46.7   | 0.1            | 4.7                   | 4.7   | 32.1%                | 34.5% |
| PCB-156             | 1.75              | 7      | 832     | CJ     |                 | 832.0                    | 416.0  | 0.0005         | 0.4                   | 0.2   | 2.9%                 | 1.5%  |
| PCB-157             | 1.83              | 7.32   | 272     | --     |                 | 272.0                    | 272.0  | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-167             | 1.68              | 6.72   | 437     | J      |                 | 437.0                    | 218.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.253             | 1.012  | 2.35    | --     |                 | 2.4                      | 2.4    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.758             | 3.032  | 60.6    | --     |                 | 60.6                     | 60.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 8.7               | 8.2   | 5.7       | 5.3   | 14.4         | 13.5  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 302               | Fine   | Field   | NW S-4 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0695            | 0.278  |         | E      | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0416            | 0.1664 |         | E      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0912            | 0.3648 | 0.058   | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0772            | 0.3088 | 0.0579  | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0416            | 0.1664 | 0.149   | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 27.7%                | 34.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0683            | 0.2732 |         | E      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0205            | 0.082  | 0.142   | BD     | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0274            | 0.1096 | 0.109   | B      | <5x*B           | 0.1                      | 0.0   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 0.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0323            | 0.1292 | 0.257   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 8.3%                 | 3.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.152             | 0.608  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0399            | 0.1596 | 0.143   | --     |                 | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0387            | 0.1548 | 0.142   | --     |                 | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.734             | 2.936  |         | D      | <5x*B           | 0.2                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0516            | 0.2064 | 0.0599  | --     |                 | 0.1                      | 0.0   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0261            | 0.1044 | 3.48    | --     |                 | 3.5                      | 3.5   | 0.01           | 0.0                   | 0.0   | 9.7%                 | 11.9% |
| OCDF                | 0.0485            | 0.194  | 1.72    | --     |                 | 1.7                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.085             | 0.34   | 28      | --     |                 | 28.0                     | 28.0  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| PCB-77              | 0.0411            | 0.1644 | 5.91    | B      | <5x*B           | 5.9                      | 3.0   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.0412            | 0.1648 | 0.347   | B      | <5x*B           | 0.3                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.03              | 8.12   | 70.4    | B      | <5x*B           | 70.4                     | 35.2  | 0.0001         | 0.0                   | 0.0   | 2.0%                 | 1.2%  |
| PCB-114             | 2.01              | 8.04   | 3.71    | --     |                 | 3.7                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-118             | 1.58              | 6.32   | 159     | B      | <5x*B           | 159.0                    | 79.5  | 0.0001         | 0.0                   | 0.0   | 4.4%                 | 2.7%  |
| PCB-123             | 1.78              | 7.12   |         | --     |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.0558            | 0.2232 | 1.02    | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 27.7%                | 34.1% |
| PCB-156             | 1.03              | 4.12   | 23.4    | --     |                 | 23.4                     | 23.4  | 0.0005         | 0.0                   | 0.0   | 3.2%                 | 4.0%  |
| PCB-157             | 6.26              | 25.04  |         | E      |                 | 3.1                      |       | 0.0005         | 0.0                   |       | 0.4%                 |       |
| PCB-167             | 1                 | 4      | 11.4    | --     |                 | 11.4                     | 11.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0609            | 0.2436 | 0.145   | --     |                 | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.484             | 1.936  | 1.92    | --     |                 | 1.9                      | 1.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.1       | 0.1   | 0.2          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 438               | Fine   | Field   | NW S-5 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.119             | 0.476  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 2,3,7,8-TCDD        | 0.0205            | 0.082  |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0217            | 0.0868 | 0.144   | --     |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| 2,3,4,7,8-PeCDF     | 0.0231            | 0.0924 | 0.139   | --     |                 | 0.1                      | 0.1   | 0.5            | 0.1                   | 0.1   | 8.1%                 | 12.4% |
| 1,2,3,7,8-PeCDD     | 0.243             | 0.972  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 16.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.189             | 0.756  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.361             | 1.444  |         | D      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0801            | 0.3204 | 0.25    | --     |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.9%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.149             | 0.596  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0477            | 0.1908 | 0.331   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.9%                 | 7.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.413             | 1.652  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.241             | 0.964  |         | EJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.5               | 10     |         | D      |                 | 0.6                      |       | 0.01           | 0.0                   |       | 1.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.131             | 0.524  |         | --     |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.144             | 0.576  | 7.46    | --     |                 | 7.5                      | 7.5   | 0.01           | 0.1                   | 0.1   | 12.2%                | 18.6% |
| OCDF                | 0.157             | 0.628  | 5.72    | IJ     |                 | 5.7                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.289             | 1.156  | 54.3    | I      |                 | 54.3                     | 54.3  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.3%  |
| PCB-77              | 0.126             | 0.504  | 10.7    | B      | <5x*B           | 10.7                     | 5.4   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.106             | 0.424  | 0.552   | B      | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.357             | 1.428  | 48.3    | B      | <5x*B           | 48.3                     | 24.2  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |
| PCB-114             | 0.35              | 1.4    | 1.89    | --     |                 | 1.9                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.294             | 1.176  | 100     | BJ     | <5x*B           | 100.0                    | 50.0  | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 1.2%  |
| PCB-123             | 0.321             | 1.284  |         | --     | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.191             | 0.764  | 2.1     | --     |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 34.2%                | 52.0% |
| PCB-156             | 0.149             | 0.596  | 18.4    | B      | <5x*B           | 18.4                     | 9.2   | 0.0005         | 0.0                   | 0.0   | 1.5%                 | 1.1%  |
| PCB-157             | 0.155             | 0.62   | 4.62    | B      | <5x*B           | 4.6                      | 2.3   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-167             | 0.137             | 0.548  | 7.78    | --     |                 | 7.8                      | 7.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0671            | 0.2684 | 0.323   | --     |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-189             | 0.118             | 0.472  | 2.68    | J      |                 | 2.7                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.2       | 0.2   | 0.5          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 361               | Fine   | Field   | NW S-6 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0646            | 0.2584 | 0.179   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.232             | 0.928  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 6.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.154             | 0.616  | 0.171   | --     |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.111             | 0.444  | 0.234   | --     |                 | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 6.7%                 | 6.0%  |
| 1,2,3,7,8-PeCDD     | 0.156             | 0.624  | 0.613   | --     |                 | 0.6                      | 0.3   | 1              | 0.6                   | 0.3   | 40.0%                | 36.1% |
| 1,2,3,4,7,8-HxCDF   | 0.169             | 0.676  | 0.297   | --     |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 1.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.148             | 0.592  | 0.262   | --     |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 1.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.224             | 0.896  | 1.31    | D      |                 | 0.7                      |       | 0.1            | 0.1                   |       | 4.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.438             | 1.752  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.178             | 0.712  | 0.555   | --     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.162             | 0.648  | 0.86    | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 6.0%                 | 10.8% |
| 1,2,3,7,8,9-HxCDD   | 0.148             | 0.592  | 0.593   | JE     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.284             | 1.136  | 2.35    | --     |                 | 2.4                      | 2.4   | 0.01           | 0.0                   | 0.0   | 1.6%                 | 2.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.641             | 2.564  |         | --     |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.242             | 0.968  | 17.5    | --     |                 | 17.5                     | 17.5  | 0.01           | 0.2                   | 0.2   | 11.7%                | 21.1% |
| OCDF                | 0.678             | 2.712  | 7.47    | J      |                 | 7.5                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.664             | 2.656  | 117     | --     |                 | 117.0                    | 117.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.4%  |
| PCB-77              | 0.143             | 0.572  | 4.8     | B      | <5x*B           | 4.8                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.163             | 0.652  | 0.742   | --     |                 | 0.7                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.848             | 3.392  | 25.6    | B      | <5x*B           | 25.6                     | 12.8  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 1.53              | 6.12   |         | E      |                 | 0.8                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.855             | 3.42   | 52      | B      | <5x*B           | 52.0                     | 26.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-123             | 0.971             | 3.884  | 1.84    | J      |                 | 1.8                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.199             | 0.796  | 0.943   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 6.0%                 | 10.8% |
| PCB-156             | 9.16              | 36.64  |         | E      | <5x*B           | 4.6                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-157             | 3.06              | 12.24  |         | E      | <5x*B           | 1.5                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.8               | 3.2    | 5.8     | B      | <5x*B           | 5.8                      | 2.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.102             | 0.408  | 0.276   | --     |                 | 0.3                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.579             | 2.316  |         | --     |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.7   | 0.1       | 0.1   | 1.5          | 0.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 420               | Fine   | Field   | NW S-7 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0635            | 0.254  | 0.48    | NJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.12              | 0.48   |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 3.2%                 |       |
| 1,2,3,7,8-PeCDF     | 0.257             | 1.028  | 0.375   | --     |                 | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.227             | 0.908  | 0.647   | --     |                 | 0.6                      | 0.3   | 0.5            | 0.3                   | 0.2   | 9.5%                 | 6.8%  |
| 1,2,3,7,8-PeCDD     | 0.0755            | 0.302  | 0.619   | --     |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 19.1%                | 27.2% |
| 1,2,3,4,7,8-HxCDF   | 0.144             | 0.576  | 0.693   | B      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.2%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.813             | 3.252  |         | D      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.156             | 0.624  | 0.726   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.156             | 0.624  | 0.387   | B      | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.3%                 | 0.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0707            | 0.2828 | 0.873   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.059             | 0.236  | 1.23    | --     |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 3.8%                 | 5.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0567            | 0.2268 | 1.31    | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 5.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.21              | 0.84   | 6.82    | J      |                 | 6.8                      | 3.4   | 0.01           | 0.1                   | 0.0   | 2.2%                 | 1.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.299             | 1.196  | 0.56    | --     |                 | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0861            | 0.3444 | 29.3    | --     |                 | 29.3                     | 29.3  | 0.01           | 0.3                   | 0.3   | 9.3%                 | 13.3% |
| OCDF                | 0.0888            | 0.3552 | 17.5    | --     |                 | 17.5                     | 17.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0907            | 0.3628 | 220     | --     |                 | 220.0                    | 220.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-77              | 0.12              | 0.48   | 38.4    | --     |                 | 38.4                     | 38.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.145             | 0.58   | 1.42    | --     |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.793             | 3.172  | 173     | --     |                 | 173.0                    | 173.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-114             | 5.74              | 22.96  |         | E      | <5x*B           | 2.9                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.619             | 2.476  | 370     | --     |                 | 370.0                    | 370.0 | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.7%  |
| PCB-123             | 0.696             | 2.784  |         | --     |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.289             | 1.156  | 10.6    | J      |                 | 10.6                     | 5.3   | 0.1            | 1.1                   | 0.5   | 33.7%                | 24.0% |
| PCB-156             | 0.354             | 1.416  | 63.2    | --     |                 | 63.2                     | 63.2  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.4%  |
| PCB-157             | 0.373             | 1.492  | 18.6    | --     |                 | 18.6                     | 18.6  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.344             | 1.376  | 35.9    | J      |                 | 35.9                     | 18.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.151             | 0.604  | 1.13    | --     |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-189             | 0.404             | 1.616  | 8.79    | --     |                 | 8.8                      | 8.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.5   | 1.1       | 0.5   | 3.0          | 2.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 956               | Fine   | Field   | NW S-8 | NW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0347            | 0.1388 | 0.172   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.0542            | 0.2168 |         | E      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.105             | 0.42   | 0.164   | --     |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 1.2%                 | 0.8%  |
| 2,3,4,7,8-PeCDF     | 0.217             | 0.868  |         | E      |                 | 0.1                      |       | 0.5            | 0.1                   |       | 5.9%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0665            | 0.266  | 0.295   | --     |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 35.2%                | 47.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0743            | 0.2972 | 0.261   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 1.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.295             | 1.18   |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0781            | 0.3124 | 0.274   | --     |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0839            | 0.3356 | 0.301   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 1.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.055             | 0.22   | 0.279   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 4.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0479            | 0.1916 | 0.372   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 6.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0457            | 0.1828 | 0.36    | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 6.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0263            | 0.1052 | 1.63    | BJ     | <5x*B           | 1.6                      | 0.8   | 0.01           | 0.0                   | 0.0   | 1.9%                 | 1.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0363            | 0.1452 | 0.178   | --     |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0416            | 0.1664 | 7.17    | --     |                 | 7.2                      | 7.2   | 0.01           | 0.1                   | 0.1   | 8.5%                 | 11.5% |
| OCDF                | 0.0305            | 0.122  | 3.07    | B      | <5x*B           | 3.1                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0394            | 0.1576 | 41.1    | --     |                 | 41.1                     | 41.1  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-77              | 0.0507            | 0.2028 | 6.3     | B      | <5x*B           | 6.3                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0535            | 0.214  | 0.435   | --     |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.216             | 0.864  | 39.6    | B      | <5x*B           | 39.6                     | 19.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-114             | 1.89              | 7.56   |         | E      | <5x*B           | 0.9                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 0.182             | 0.728  | 86.1    | B      | <5x*B           | 86.1                     | 43.1  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.7%  |
| PCB-123             | 0.205             | 0.82   |         | --     |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.0431            | 0.1724 | 1.53    | B      | <5x*B           | 1.5                      | 0.8   | 0.1            | 0.2                   | 0.1   | 17.6%                | 12.8% |
| PCB-156             | 0.214             | 0.856  | 14.6    | B      | <5x*B           | 14.6                     | 7.3   | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-157             | 0.225             | 0.9    | 4.81    | B      | <5x*B           | 4.8                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.208             | 0.832  | 8.62    | BJ     | <5x*B           | 8.6                      | 4.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0428            | 0.1712 | 0.309   | --     |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.277             | 1.108  | 2.25    | --     |                 | 2.3                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.4   | 0.2       | 0.1   | 0.7          | 0.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | Fine              | Field | NW S-9  | NW   | Open Space      | Not included in laboratory reports due to insufficient mass for fine analysis; bulk sample used to represent location. |       |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations*   |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full   | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 2,3,7,8-TCDD        |                   |       | --      |      |                 |  |       | 1        |                       |       |                      |       |
| 1,2,3,7,8-PeCDF     |                   |       | --      |      |                 |  |       | 0.05     |                       |       |                      |       |
| 2,3,4,7,8-PeCDF     |                   |       | --      |      |                 |  |       | 0.5      |                       |       |                      |       |
| 1,2,3,7,8-PeCDD     |                   |       | --      |      |                 |  |       | 1        |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDF   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDF   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 2,3,4,6,7,8-HxCDF   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDF   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDD   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDD   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDD   |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDF |                   |       | --      |      |                 |  |       | 0.01     |                       |       |                      |       |
| 1,2,3,4,7,8,9-HpCDF |                   |       | --      |      |                 |  |       | 0.01     |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDD |                   |       | --      |      |                 |  |       | 0.01     |                       |       |                      |       |
| OCDF                |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| OCDD                |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-77              |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-81              |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-105             |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-114             |                   |       | --      |      |                 |  |       | 0.0005   |                       |       |                      |       |
| PCB-118             |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-123             |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |
| PCB-126             |                   |       | --      |      |                 |  |       | 0.1      |                       |       |                      |       |
| PCB-156             |                   |       | --      |      |                 |  |       | 0.0005   |                       |       |                      |       |
| PCB-157             |                   |       | --      |      |                 |  |       | 0.0005   |                       |       |                      |       |
| PCB-167             |                   |       | --      |      |                 |  |       | 0.00001  |                       |       |                      |       |
| PCB-169             |                   |       | --      |      |                 |  |       | 0.01     |                       |       |                      |       |
| PCB-189             |                   |       | --      |      |                 |  |       | 0.0001   |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |            | PCBs Only |       | All Analytes |       |
|-------------------|------------|-----------|-------|--------------|-------|
| Full              | Quant      | Full      | Quant | Full         | Quant |
| [Redacted]        | [Redacted] |           |       |              |       |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 575-B             | Bulk   | Bulk    | NW S-9 | NW              | Open Space               | Insufficient mass for fine analysis (575); bulk sample used to represent location. |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.167             | 0.668  | 0.27    | NJ     |                 | 0.1                      |  | 0.1            | 0.0                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0864            | 0.3456 |         | --     |                 | 0.0                      |  | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.212             | 0.848  |         | --     | <5x*B           | 0.1                      |  | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.191             | 0.764  |         | --     |                 | 0.1                      |  | 0.5            | 0.1                   |       | 1.6%                 |       |
| 1,2,3,7,8-PeCDD     | 0.114             | 0.456  | 0.752   | --     |                 | 0.8                      | 0.8  | 1              | 0.8                   | 0.8   | 25.4%                | 28.3% |
| 1,2,3,4,7,8-HxCDF   | 0.767             | 3.068  |         | --     |                 | 0.4                      |  | 0.1            | 0.0                   |       | 1.3%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0725            | 0.29   | 1.79    | D      |                 | 0.9                      |  | 0.1            | 0.1                   |       | 2.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.133             | 0.532  | 0.717   | BI     | <5x*B           | 0.7                      | 0.4  | 0.1            | 0.1                   | 0.0   | 2.2%                 | 1.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.147             | 0.588  | 0.53    | BI     | <5x*B           | 0.5                      | 0.1  | 0.1            | 0.1                   | 0.0   | 1.6%                 | 0.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0809            | 0.3236 | 1.09    | --     |                 | 1.1                      | 1.1  | 0.1            | 0.1                   | 0.1   | 3.5%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0687            | 0.2748 | 2.67    | --     |                 | 2.7                      | 2.7  | 0.1            | 0.3                   | 0.3   | 8.6%                 | 9.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0815            | 0.326  | 1.9     | --     |                 | 1.9                      | 1.9  | 0.1            | 0.2                   | 0.2   | 6.0%                 | 6.7%  |
| 1,2,3,4,6,7,8-HpCDF | 18.2              | 72.8   |         | D      | <5x*B           | 4.6                      |  | 0.01           | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.427             | 1.708  | 0.872   | I      |                 | 0.9                      | 0.4  | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.141             | 0.564  | 63.6    | --     |                 | 63.6                     | 63.6   | 0.01           | 0.6                   | 0.6   | 20.2%                | 22.5% |
| OCDF                | 0.217             | 0.868  | 20.7    | I      |                 | 20.7                     | 20.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.312             | 1.248  | 576     | I      |                 | 576.0                    | 576.0  | 0.0001         | 0.1                   | 0.1   | 1.8%                 | 2.0%  |
| PCB-77              | 0.0204            | 0.0816 | 1.41    | B      | <5x*B           | 1.4                      | 0.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0197            | 0.0788 |         | --     | <5x*B           | 0.0                      |  | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.01              | 4.04   | 135     | --     |                 | 135.0                    | 135.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-114             | 1                 | 4      | 6.65    | --     |                 | 6.7                      | 6.7  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.738             | 2.952  | 294     | --     |                 | 294.0                    | 294.0  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.0%  |
| PCB-123             | 0.81              | 3.24   | 7.55    | --     |                 | 7.6                      | 7.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.541             | 2.164  | 6.25    | --     |                 | 6.3                      | 6.3  | 0.1            | 0.6                   | 0.6   | 20.0%                | 22.3% |
| PCB-156             | 0.43              | 1.72   | 46.4    | --     |                 | 46.4                     | 46.4   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-157             | 0.431             | 1.724  | 11.6    | --     |                 | 11.6                     | 11.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.387             | 1.548  | 26.9    | --     |                 | 26.9                     | 26.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.103             | 0.412  | 0.799   | B      | <5x*B           | 0.8                      | 0.4  | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-189             | 0.779             | 3.116  | 6.12    | I      |                 | 6.1                      | 6.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.5               | 2.1   | 0.6       | 0.6   | 3.1          | 2.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 340       | Fine              | Field  | SE S-1  | SE   | Open Space      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0211            | 0.0844 | 0.194   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0313            | 0.1252 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0375            | 0.15   | 0.196   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.7%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0364            | 0.1456 | 0.201   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 7.0%                 | 7.4%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0548            | 0.2192 | 0.353   | --   |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 27.8%                | 29.5% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0233            | 0.0932 | 0.271   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 0.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.458             | 1.832  |         | D    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0544            | 0.2176 | 0.354   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 2.9%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0336            | 0.1344 | 0.309   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.5%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0316            | 0.1264 | 0.443   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 2.9%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0267            | 0.1068 | 0.571   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 4.4%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0315            | 0.126  | 0.637   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 4.4%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0396            | 0.1584 | 2.65    | J    |                 | 2.7                      | 1.3   | 0.01           | 0.0                   | 0.0   | 1.9%                 | 1.0%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.296             | 1.184  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0572            | 0.2288 | 11.9    | --   |                 | 11.9                     | 11.9  | 0.01           | 0.1                   | 0.1   | 8.3%                 | 8.8%  |      |       |      |       |      |
| OCDF                | 0.114             | 0.456  | 4.92    | J    |                 | 4.9                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.168             | 0.672  | 88.9    | --   |                 | 88.9                     | 88.9  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.7%  |      |       |      |       |      |
| PCB-77              | 0.316             | 1.264  | 13      | BI   | <5x*B           | 13.0                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.338             | 1.352  |         | I    |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-105             | 1.73              | 6.92   | 105     | --   |                 | 105.0                    | 105.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |      |       |      |       |      |
| PCB-114             | 5.91              | 23.64  |         | E    | <5x*B           | 3.0                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| PCB-118             | 1.34              | 5.36   | 239     | BI   | <5x*B           | 239.0                    | 119.5 | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 0.9%  |      |       |      |       |      |
| PCB-123             | 1.51              | 6.04   |         | I    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.119             | 0.476  | 4.2     | --   |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 29.2%                | 31.0% |      |       |      |       |      |
| PCB-156             | 0.67              | 2.68   | 39.9    | --   |                 | 39.9                     | 39.9  | 0.0005         | 0.0                   | 0.0   | 1.4%                 | 1.5%  |      |       |      |       |      |
| PCB-157             | 0.706             | 2.824  | 12.9    | --   |                 | 12.9                     | 12.9  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |      |       |      |       |      |
| PCB-167             | 0.651             | 2.604  | 23.2    | J    |                 | 23.2                     | 11.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0408            | 0.1632 | 0.605   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-189             | 4.34              | 17.36  |         | E    | <5x*B           | 2.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.8   | 0.4       | 0.4   | 1.2          | 1.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 209       | Fine              | Field  | SE S-10 | SE   | Open Space      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0434            | 0.1736 | 0.0807  | NJ   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0157            | 0.0628 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0317            | 0.1268 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0265            | 0.106  |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0191            | 0.0764 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0218            | 0.0872 | 0.116   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 0.0                  | 3.4%  | 4.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.118             | 0.472  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 3.4%  |       |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0248            | 0.0992 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0285            | 0.114  | 0.248   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 6.9%  | 8.2%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.243             | 0.972  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 3.4%  |       |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0254            | 0.1016 | 0.413   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 0.0                  | 13.8% | 16.4% |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0266            | 0.1064 | 0.369   | J    |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.0                  | 13.8% | 8.2%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0356            | 0.1424 | 1.29    | --   |                 | 1.3                      | 1.3   | 0.01           | 0.0                   | 0.0   | 0.0                  | 4.5%  | 5.3%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0562            | 0.2248 |         | --   |                 | 0.0                      |       | 0.01           | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.038             | 0.152  | 8.09    | --   |                 | 8.1                      | 8.1   | 0.01           | 0.1                   | 0.1   | 0.1                  | 27.9% | 33.1% |       |      |       |      |
| OCDF                | 0.0545            | 0.218  | 3.05    | J    |                 | 3.1                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1%  |       |      |       |      |
| OCDD                | 0.0522            | 0.2088 | 59.4    | --   |                 | 59.4                     | 59.4  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 2.0%  | 2.4%  |       |      |       |      |
| PCB-77              | 0.0265            | 0.106  | 2.52    | B    | <5x*B           | 2.5                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.1%  | 0.1%  |       |      |       |      |
| PCB-81              | 0.0335            | 0.134  | 0.468   | --   |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.237             | 0.948  | 13.7    | B    | <5x*B           | 13.7                     | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.5%  | 0.3%  |       |      |       |      |
| PCB-114             | 0.247             | 0.988  | 1.03    | B    | <5x*B           | 1.0                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.2%  | 0.1%  |       |      |       |      |
| PCB-118             | 0.244             | 0.976  | 31.9    | B    | <5x*B           | 31.9                     | 16.0  | 0.0001         | 0.0                   | 0.0   | 0.0                  | 1.1%  | 0.7%  |       |      |       |      |
| PCB-123             | 0.949             | 3.796  |         | E    |                 | 0.5                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-126             | 0.0627            | 0.2508 | 0.52    | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.1                  | 17.2% | 20.4% |       |      |       |      |
| PCB-156             | 0.162             | 0.648  | 5.15    | B    | <5x*B           | 5.2                      | 2.6   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.9%  | 0.5%  |       |      |       |      |
| PCB-157             | 0.168             | 0.672  | 1.52    | B    | <5x*B           | 1.5                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.0                  | 0.3%  | 0.2%  |       |      |       |      |
| PCB-167             | 0.165             | 0.66   | 2.92    | B    | <5x*B           | 2.9                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.236             | 0.944  |         | E    | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       |                      | 0.3%  |       |       |      |       |      |
| PCB-189             | 0.239             | 0.956  | 0.878   | B    | <5x*B           | 0.9                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0                  | 0.0%  | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.1       | 0.1   | 0.2          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 373       | Fine              | Field  | SE S-2  | SE   | Open Space      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0193            | 0.0772 | 0.171   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |       |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0521            | 0.2084 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0156            | 0.0624 | 0.223   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.7%                 |       | 0.9%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.218             | 0.872  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.5%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0088            | 0.0352 | 0.249   | B    | <5x*B           | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 13.8%                |       | 8.9%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.56              | 2.24   |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |       |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.575             | 2.3    |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |       |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0344            | 0.1376 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0384            | 0.1536 | 0.451   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.5%                 |       | 4.4%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.562             | 2.248  |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |       |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0251            | 0.1004 | 1.26    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 9.0%                 |       | 11.5% |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0262            | 0.1048 | 0.852   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 6.2%                 |       | 8.0%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 25.6              | 102.4  |         | D    |                 | 6.4                      |       | 0.01           | 0.1                   |       | 4.4%                 |       |       |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0691            | 0.2764 | 1.09    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.8%                 |       | 1.0%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0207            | 0.0828 | 56.2    | --   |                 | 56.2                     | 56.2  | 0.01           | 0.6                   | 0.6   | 38.9%                |       | 49.9% |       |      |       |      |
| OCDF                | 0.0434            | 0.1736 | 26      | --   |                 | 26.0                     | 26.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |
| OCDD                | 0.037             | 0.148  | 518     | --   |                 | 518.0                    | 518.0 | 0.0001         | 0.1                   | 0.1   | 3.6%                 |       | 4.6%  |       |      |       |      |
| PCB-77              | 0.0242            | 0.0968 | 5.15    | B    | <5x*B           | 5.2                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-81              | 0.0256            | 0.1024 | 0.472   | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 0.276             | 1.104  | 27.5    | B    | <5x*B           | 27.5                     | 13.8  | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.1%  |       |      |       |      |
| PCB-114             | 0.288             | 1.152  | 1.65    | B    | <5x*B           | 1.7                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |
| PCB-118             | 0.349             | 1.396  | 67.3    | B    | <5x*B           | 67.3                     | 33.7  | 0.0001         | 0.0                   | 0.0   | 0.5%                 |       | 0.3%  |       |      |       |      |
| PCB-123             | 0.396             | 1.584  | 1.62    | J    |                 | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.101             | 0.404  | 0.994   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 6.9%                 |       | 8.9%  |       |      |       |      |
| PCB-156             | 0.455             | 1.82   | 10      | --   |                 | 10.0                     | 10.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 |       | 0.4%  |       |      |       |      |
| PCB-157             | 0.47              | 1.88   | 2.71    | --   |                 | 2.7                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| PCB-167             | 0.463             | 1.852  | 9.57    | --   |                 | 9.6                      | 9.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.0886            | 0.3544 | 0.614   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.4%                 |       | 0.5%  |       |      |       |      |
| PCB-189             | 0.387             | 1.548  | 6.77    | --   |                 | 6.8                      | 6.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.1%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 1.1   | 0.1       | 0.1   | 1.5          | 1.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 118               | Fine  | Field   | SE S-3 | SE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.175             | 0.7   |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.151             | 0.604 |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 7.1%                 |       |
| 1,2,3,7,8-PeCDF     | 0.492             | 1.968 |         | E      |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |
| 2,3,4,7,8-PeCDF     | 0.279             | 1.116 |         | --     |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.5%                 |       |
| 1,2,3,7,8-PeCDD     | 0.146             | 0.584 | 0.648   | --     |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 42.4%                | 57.2% |
| 1,2,3,4,7,8-HxCDF   | 0.127             | 0.508 | 0.439   | --     |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.792             | 3.168 | 0.753   | --     |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.178             | 0.712 | 0.637   | --     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.2%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.241             | 0.964 | 0.731   | --     |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.9%                 | 3.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.567             | 2.268 |         | E      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0645            | 0.258 | 0.577   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 5.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.486             | 1.944 |         | EJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 3.21              | 12.84 |         | D      |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.235             | 0.94  | 0.735   | --     |                 | 0.7                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.268             | 1.072 | 10.4    | --     |                 | 10.4                     | 10.4  | 0.01           | 0.1                   | 0.1   | 7.3%                 | 9.9%  |
| OCDF                | 0.49              | 1.96  | 7.05    | --     |                 | 7.1                      | 7.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.51              | 2.04  | 83.5    | --     |                 | 83.5                     | 83.5  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-77              | 0.204             | 0.816 | 12      | B      | <5x*B           | 12.0                     | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.951             | 3.804 |         | E      | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.15              | 4.6   | 36.9    | BI     | <5x*B           | 36.9                     | 18.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 1.13              | 4.52  | 2.81    | I      |                 | 2.8                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.925             | 3.7   | 87.3    | BIJ    | <5x*B           | 87.3                     | 43.7  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-123             | 1.01              | 4.04  |         | I      | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.363             | 1.452 | 1.72    | --     |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 12.0%                | 16.2% |
| PCB-156             | 1.26              | 5.04  | 16.2    | B      | <5x*B           | 16.2                     | 8.1   | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-157             | 1.31              | 5.24  | 3.74    | B      | <5x*B           | 3.7                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-167             | 1.16              | 4.64  | 8.01    | --     |                 | 8.0                      | 8.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.492             | 1.968 |         | E      |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.855             | 3.42  | 2.37    | --     |                 | 2.4                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.8   | 0.2       | 0.2   | 1.4          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 446       | Fine              | Field  | SE S-4  | SE   | Open Space      |                          |       |                |                       |       |                      |       |      |       |      |       |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full  |
| 2,3,7,8-TCDF        | 0.0492            | 0.1968 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 2,3,7,8-TCDD        | 0.0309            | 0.1236 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 1,2,3,7,8-PeCDF     | 0.0363            | 0.1452 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 2,3,4,7,8-PeCDF     | 0.0293            | 0.1172 |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 1,2,3,7,8-PeCDD     | 0.033             | 0.132  |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 1,2,3,4,7,8-HxCDF   | 0.167             | 0.668  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      |       |      |       |      | 3.0%  |       |
| 1,2,3,6,7,8-HxCDF   | 0.0369            | 0.1476 | 0.2     | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      |       |      |       |      | 6.0%  | 8.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0585            | 0.234  |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |
| 1,2,3,7,8,9-HxCDF   | 0.0968            | 0.3872 | 0.32    | --   |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      |       |      |       |      | 9.0%  | 8.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.24              | 0.96   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       |      |       |      | 3.0%  |       |
| 1,2,3,6,7,8-HxCDD   | 0.649             | 2.596  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      |       |      |       |      | 9.0%  |       |
| 1,2,3,7,8,9-HxCDD   | 0.0316            | 0.1264 | 0.269   | J    |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      |       |      |       |      | 9.0%  | 4.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0514            | 0.2056 | 2.58    | --   |                 | 2.6                      | 2.6   | 0.01           | 0.0                   | 0.0   |                      |       |      |       |      | 7.8%  | 10.5% |
| 1,2,3,4,7,8,9-HpCDF | 0.117             | 0.468  | 0.214   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   |                      |       |      |       |      | 0.6%  | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0913            | 0.3652 | 8.93    | --   |                 | 8.9                      | 8.9   | 0.01           | 0.1                   | 0.1   |                      |       |      |       |      | 26.7% | 36.1% |
| OCDF                | 0.129             | 0.516  | 7.69    | J    |                 | 7.7                      | 3.8   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.2%  | 0.2%  |
| OCDD                | 0.211             | 0.844  | 61.5    | --   |                 | 61.5                     | 61.5  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 1.8%  | 2.5%  |
| PCB-77              | 0.029             | 0.116  | 2.95    | B    | <5x*B           | 3.0                      | 1.5   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.1%  | 0.1%  |
| PCB-81              | 0.0357            | 0.1428 | 0.508   | --   |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.0%  | 0.0%  |
| PCB-105             | 0.222             | 0.888  | 13.1    | BJ   | <5x*B           | 13.1                     | 6.6   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.4%  | 0.3%  |
| PCB-114             | 0.816             | 3.264  |         | E    | <5x*B           | 0.4                      |       | 0.0005         | 0.0                   |       |                      |       |      |       |      | 0.1%  |       |
| PCB-118             | 0.238             | 0.952  | 29.4    | BJ   | <5x*B           | 29.4                     | 14.7  | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.9%  | 0.6%  |
| PCB-123             | 0.27              | 1.08   | 0.874   | --   |                 | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   |                      |       |      |       |      | 0.0%  | 0.0%  |
| PCB-126             | 0.118             | 0.472  | 0.68    | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   |                      |       |      |       |      | 21.0% | 28.4% |
| PCB-156             | 0.747             | 2.988  | 5.69    | B    | <5x*B           | 5.7                      | 2.8   | 0.0005         | 0.0                   | 0.0   |                      |       |      |       |      | 0.9%  | 0.6%  |
| PCB-157             | 0.772             | 3.088  | 1.89    | B    | <5x*B           | 1.9                      | 0.5   | 0.0005         | 0.0                   | 0.0   |                      |       |      |       |      | 0.3%  | 0.1%  |
| PCB-167             | 0.759             | 3.036  | 3.51    | B    | <5x*B           | 3.5                      | 1.8   | 0.00001        | 0.0                   | 0.0   |                      |       |      |       |      | 0.0%  | 0.0%  |
| PCB-169             | 0.198             | 0.792  |         | E    | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       |                      |       |      |       |      | 0.3%  |       |
| PCB-189             | 1.19              | 4.76   |         | E    | <5x*B           | 0.6                      |       | 0.0001         | 0.0                   |       |                      |       |      |       |      | 0.0%  |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.1       | 0.1   | 0.2          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 240       | Fine              | Duplicate | SE S-5  | SE   | Open Space      | Field sample parent 685 had insufficient mass for fine analysis; duplicate sample selected to represent location. |       |          |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|---|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations*  |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full  | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.153             | 0.612     |         | E    |                 | 0.1   |       | 0.1      | 0.0                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.0228            | 0.0912    |         | --   |                 | 0.0   |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0499            | 0.1996    | 0.161   | --   |                 | 0.2   | 0.1   | 0.05     | 0.0                   | 0.0   | 1.3%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.0448            | 0.1792    | 0.35    | --   |                 | 0.4   | 0.4   | 0.5      | 0.2                   | 0.2   | 25.6%                | 35.8% |
| 1,2,3,7,8-PeCDD     | 0.206             | 0.824     |         | E    |                 | 0.1   |       | 1        | 0.1                   |       | 12.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0343            | 0.1372    | 0.176   | B    | <5x*B           | 0.2   | 0.1   | 0.1      | 0.0                   | 0.0   | 2.6%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0314            | 0.1256    | 0.327   | --   |                 | 0.3   | 0.3   | 0.1      | 0.0                   | 0.0   | 3.8%                 | 5.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0902            | 0.3608    | 0.337   | --   |                 | 0.3   | 0.2   | 0.1      | 0.0                   | 0.0   | 3.8%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0457            | 0.1828    | 0.321   | B    | <5x*B           | 0.3   | 0.2   | 0.1      | 0.0                   | 0.0   | 3.8%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.044             | 0.176     | 0.25    | --   |                 | 0.3   | 0.3   | 0.1      | 0.0                   | 0.0   | 3.8%                 | 5.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0369            | 0.1476    | 0.36    | --   |                 | 0.4   | 0.4   | 0.1      | 0.0                   | 0.0   | 5.1%                 | 7.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0439            | 0.1756    | 0.384   | --   |                 | 0.4   | 0.4   | 0.1      | 0.0                   | 0.0   | 5.1%                 | 7.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0327            | 0.1308    | 1.76    | BJ   | <5x*B           | 1.8   | 0.9   | 0.01     | 0.0                   | 0.0   | 2.3%                 | 1.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0629            | 0.2516    | 0.163   | --   |                 | 0.2   | 0.1   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0397            | 0.1588    | 7.58    | --   |                 | 7.6   | 7.6   | 0.01     | 0.1                   | 0.1   | 9.7%                 | 13.6% |
| OCDF                | 0.0699            | 0.2796    | 3.56    | BJ   | <5x*B           | 3.6   | 1.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0932            | 0.3728    | 63      | --   |                 | 63.0  | 63.0  | 0.0001   | 0.0                   | 0.0   | 0.8%                 | 1.1%  |
| PCB-77              | 0.287             | 1.148     | 3.32    | BI   | <5x*B           | 3.3   | 1.7   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.295             | 1.18      |         | I    |                 | 0.1   |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.1               | 4.4       | 23.9    | B    | <5x*B           | 23.9  | 12.0  | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 1.09              | 4.36      |         | --   | <5x*B           | 0.5   |       | 0.0005   | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.817             | 3.268     | 51.3    | BI   | <5x*B           | 51.3  | 25.7  | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-123             | 0.919             | 3.676     |         | I    |                 | 0.5   |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.12              | 0.48      | 1.21    | B    | <5x*B           | 1.2   | 0.6   | 0.1      | 0.1                   | 0.1   | 15.4%                | 10.8% |
| PCB-156             | 0.584             | 2.336     | 10.7    | B    | <5x*B           | 10.7  | 5.4   | 0.0005   | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 0.616             | 2.464     | 3.35    | B    | <5x*B           | 3.4   | 1.7   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.567             | 2.268     | 8.55    | BJ   | <5x*B           | 8.6   | 4.3   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0596            | 0.2384    | 0.281   | --   |                 | 0.3   | 0.3   | 0.01     | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.349             | 1.396     |         | --   | <5x*B           | 0.2   |       | 0.0001   | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.1       | 0.1   | 0.5          | 0.4   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 685               | Fine  | Field   | SE S-5 | SE              | Open Space               | Sample broke; results from duplicate sample 240 used to represent location. |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|---|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |   | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant   |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 2,3,7,8-TCDD        |                   |       |         | --     |                 |                          |   | 1              |                       |       |                      |       |
| 1,2,3,7,8-PeCDF     |                   |       |         | --     |                 |                          |   | 0.05           |                       |       |                      |       |
| 2,3,4,7,8-PeCDF     |                   |       |         | --     |                 |                          |   | 0.5            |                       |       |                      |       |
| 1,2,3,7,8-PeCDD     |                   |       |         | --     |                 |                          |   | 1              |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDF   |                   |       |         | --     | <5x*B           |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDF   |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 2,3,4,6,7,8-HxCDF   |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDF   |                   |       |         | --     | <5x*B           |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDD   |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDD   |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDD   |                   |       |         | --     |                 |                          |   | 0.1            |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDF |                   |       |         | --     | <5x*B           |                          |   | 0.01           |                       |       |                      |       |
| 1,2,3,4,7,8,9-HpCDF |                   |       |         | --     |                 |                          |   | 0.01           |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDD |                   |       |         | --     | <5x*B           |                          |   | 0.01           |                       |       |                      |       |
| OCDF                |                   |       |         | --     | <5x*B           |                          |   | 0.0001         |                       |       |                      |       |
| OCDD                |                   |       |         | --     | <5x*B           |                          |   | 0.0001         |                       |       |                      |       |
| PCB-77              |                   |       |         | --     | <5x*B           |                          |   | 0.0001         |                       |       |                      |       |
| PCB-81              |                   |       |         | --     |                 |                          |   | 0.0001         |                       |       |                      |       |
| PCB-105             | 0.999             | 3.996 | 20.1    | B      | <5x*B           | 20.1                     | 10.1  | 0.0001         | 0.0                   | 0.0   | 18.4%                | 19.2% |
| PCB-114             | 0.993             | 3.972 |         | --     | <5x*B           | 0.5                      |   | 0.0005         | 0.0                   |       | 2.3%                 |       |
| PCB-118             | 0.835             | 3.34  | 42.2    | BI     | <5x*B           | 42.2                     | 21.1  | 0.0001         | 0.0                   | 0.0   | 38.6%                | 40.2% |
| PCB-123             | 0.939             | 3.756 |         | I      |                 | 0.5                      |   | 0.0001         | 0.0                   |       | 0.5%                 |       |
| PCB-126             |                   |       |         | --     | <5x*B           |                          |   | 0.1            |                       |       |                      |       |
| PCB-156             | 0.636             | 2.544 | 8.32    | B      | <5x*B           | 8.3                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 38.0%                | 40.0% |
| PCB-157             | 0.67              | 2.68  |         | --     | <5x*B           | 0.3                      |   | 0.0005         | 0.0                   |       | 1.4%                 |       |
| PCB-167             | 0.618             | 2.472 | 6.43    | BJ     | <5x*B           | 6.4                      | 3.2   | 0.00001        | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-169             |                   |       |         | --     |                 |                          |   | 0.01           |                       |       |                      |       |
| PCB-189             | 0.762             | 3.048 |         | --     | <5x*B           | 0.4                      |   | 0.0001         | 0.0                   |       | 0.4%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| [REDACTED]        |       | 0.0       | 0.0   | 0.0          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 935               | Fine   | Field   | SE S-6 | SE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0535            | 0.214  |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00213           | 0.0085 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0373            | 0.1492 |         | --     |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0378            | 0.1512 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0183            | 0.0732 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.114             | 0.456  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.4%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.262             | 1.048  |         | D      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.4%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.238             | 0.952  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.4%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.455             | 1.82   |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 8.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.192             | 0.768  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0136            | 0.0544 | 0.209   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 8.9%                 | 13.2% |
| 1,2,3,7,8,9-HxCDD   | 0.0137            | 0.0548 |         | J      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 1.81              | 7.24   |         | D      |                 | 0.5                      |       | 0.01           | 0.0                   |       | 2.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.218             | 0.872  |         | --     |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0719            | 0.2876 | 4.2     | --     |                 | 4.2                      | 4.2   | 0.01           | 0.0                   | 0.0   | 18.6%                | 27.8% |
| OCDF                | 1.59              | 6.36   |         | EIJ    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.174             | 0.696  | 39.4    | BI     | <5x*B           | 39.4                     | 19.7  | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 1.3%  |
| PCB-77              | 0.157             | 0.628  | 4.78    | B      | <5x*B           | 4.8                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.135             | 0.54   | 0.397   | B      | <5x*B           | 0.4                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.243             | 0.972  | 16.7    | B      | <5x*B           | 16.7                     | 8.4   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-114             | 0.238             | 0.952  | 1.07    | --     |                 | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-118             | 0.193             | 0.772  | 41.1    | BJ     | <5x*B           | 41.1                     | 20.6  | 0.0001         | 0.0                   | 0.0   | 1.8%                 | 1.4%  |
| PCB-123             | 0.211             | 0.844  | 0.717   | B      | <5x*B           | 0.7                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.202             | 0.808  | 0.816   | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 35.5%                | 53.0% |
| PCB-156             | 0.0699            | 0.2796 | 6.94    | B      | <5x*B           | 6.9                      | 3.5   | 0.0005         | 0.0                   | 0.0   | 1.5%                 | 1.2%  |
| PCB-157             | 0.0728            | 0.2912 | 1.61    | B      | <5x*B           | 1.6                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-167             | 0.0643            | 0.2572 | 4.04    | --     |                 | 4.0                      | 4.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0671            | 0.2684 | 0.225   | --     |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-189             | 0.0698            | 0.2792 | 1.31    | J      |                 | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.1       | 0.1   | 0.1          | 0.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 352               | Fine   | Field | SE S-7  | SE    | Open Space      |                          |         |          |       |                       |       |                      |       |      |       |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|------|-------|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full | Quant |  |  |
| 2,3,7,8-TCDF        | 0.023             | 0.092  | 0.273 | BNJ     | <5x*B | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.3%  |      |       |  |  |
| 2,3,7,8-TCDD        | 0.0265            | 0.106  | 0.151 | --      |       | 0.2             | 0.2                      | 1       |          | 0.2   | 0.2                   |       | 0.2                  | 6.1%  |      | 6.2%  |  |  |
| 1,2,3,7,8-PeCDF     | 0.198             | 0.792  | 1.34  | --      |       | 1.3             | 1.3                      | 0.05    |          | 0.1   | 0.1                   |       | 0.1                  | 2.0%  |      | 2.0%  |  |  |
| 2,3,4,7,8-PeCDF     | 0.169             | 0.676  | 0.888 | --      |       | 0.9             | 0.9                      | 0.5     |          | 0.5   | 0.5                   |       | 0.5                  | 13.8% |      | 14.0% |  |  |
| 1,2,3,7,8-PeCDD     | 0.0513            | 0.2052 | 0.703 | --      |       | 0.7             | 0.7                      | 1       |          | 0.7   | 0.7                   |       | 0.7                  | 21.5% |      | 21.8% |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.158             | 0.632  | 1.09  | --      |       | 1.1             | 1.1                      | 0.1     |          | 0.1   | 0.1                   |       | 0.1                  | 3.4%  |      | 3.4%  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.138             | 0.552  | 0.719 | B       | <5x*B | 0.7             | 0.4                      | 0.1     |          | 0.1   | 0.0                   |       | 0.0                  | 2.1%  |      | 1.2%  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.171             | 0.684  | 2.7   | --      |       | 2.7             | 2.7                      | 0.1     |          | 0.3   | 0.3                   |       | 0.3                  | 8.3%  |      | 8.4%  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.17              | 0.68   | 2.57  | --      |       | 2.6             | 2.6                      | 0.1     |          | 0.3   | 0.3                   |       | 0.3                  | 8.0%  |      | 8.1%  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0596            | 0.2384 | 0.797 | --      |       | 0.8             | 0.8                      | 0.1     |          | 0.1   | 0.1                   |       | 0.1                  | 2.5%  |      | 2.5%  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0495            | 0.198  | 1.16  | --      |       | 1.2             | 1.2                      | 0.1     |          | 0.1   | 0.1                   |       | 0.1                  | 3.7%  |      | 3.7%  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0482            | 0.1928 | 0.918 | --      |       | 0.9             | 0.9                      | 0.1     |          | 0.1   | 0.1                   |       | 0.1                  | 2.8%  |      | 2.8%  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0707            | 0.2828 | 5.96  | --      |       | 6.0             | 6.0                      | 0.01    |          | 0.1   | 0.1                   |       | 0.1                  | 1.8%  |      | 1.9%  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.101             | 0.404  | 2.29  | --      |       | 2.3             | 2.3                      | 0.01    |          | 0.0   | 0.0                   |       | 0.0                  | 0.7%  |      | 0.7%  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0784            | 0.3136 | 26.2  | --      |       | 26.2            | 26.2                     | 0.01    |          | 0.3   | 0.3                   |       | 0.3                  | 8.0%  |      | 8.2%  |  |  |
| OCDF                | 0.0477            | 0.1908 | 12.5  | --      |       | 12.5            | 12.5                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.0%  |      | 0.0%  |  |  |
| OCDD                | 0.0586            | 0.2344 | 198   | --      |       | 198.0           | 198.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.6%  |      | 0.6%  |  |  |
| PCB-77              | 0.0574            | 0.2296 | 14.2  | B       | <5x*B | 14.2            | 7.1                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.0%  |      | 0.0%  |  |  |
| PCB-81              | 0.0649            | 0.2596 | 0.549 | B       | <5x*B | 0.5             | 0.3                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.0%  |      | 0.0%  |  |  |
| PCB-105             | 0.74              | 2.96   | 71.2  | B       | <5x*B | 71.2            | 35.6                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.2%  |      | 0.1%  |  |  |
| PCB-114             | 0.736             | 2.944  | 4.04  | --      |       | 4.0             | 4.0                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.0                  | 0.1%  |      | 0.1%  |  |  |
| PCB-118             | 0.606             | 2.424  | 158   | B       | <5x*B | 158.0           | 79.0                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.5%  |      | 0.2%  |  |  |
| PCB-123             | 0.682             | 2.728  | --    |         |       | 0.3             |                          | 0.0001  |          | 0.0   |                       |       |                      | 0.0%  |      |       |  |  |
| PCB-126             | 0.131             | 0.524  | 4.13  | --      |       | 4.1             | 4.1                      | 0.1     |          | 0.4   | 0.4                   |       | 0.4                  | 12.6% |      | 12.8% |  |  |
| PCB-156             | 0.42              | 1.68   | 31    | --      |       | 31.0            | 31.0                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.0                  | 0.5%  |      | 0.5%  |  |  |
| PCB-157             | 0.442             | 1.768  | 9.24  | --      |       | 9.2             | 9.2                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.0                  | 0.1%  |      | 0.1%  |  |  |
| PCB-167             | 0.408             | 1.632  | 20.6  | --      |       | 20.6            | 20.6                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0                  | 0.0%  |      | 0.0%  |  |  |
| PCB-169             | 0.0996            | 0.3984 | 0.752 | --      |       | 0.8             | 0.8                      | 0.01    |          | 0.0   | 0.0                   |       | 0.0                  | 0.2%  |      | 0.2%  |  |  |
| PCB-189             | 0.238             | 0.952  | 5.99  | --      |       | 6.0             | 6.0                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0                  | 0.0%  |      | 0.0%  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.0               | 2.9   | 0.4       | 0.4   | 3.4          | 3.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 735               | Fine   | Field   | SE S-8 | SE              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0461            | 0.1844 | 0.252   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0144            | 0.0576 | 0.11    | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 5.5%                 | 6.0%  |
| 1,2,3,7,8-PeCDF     | 0.0548            | 0.2192 | 0.405   | B      | <5x*B           | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.1%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.0518            | 0.2072 | 0.446   | --     |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 11.0%                | 12.0% |
| 1,2,3,7,8-PeCDD     | 0.0414            | 0.1656 | 0.436   | --     |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 22.0%                | 24.0% |
| 1,2,3,4,7,8-HxCDF   | 0.453             | 1.812  |         | --     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0163            | 0.0652 | 0.861   | D      |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0307            | 0.1228 | 0.435   | B      | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 1.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0328            | 0.1312 | 0.486   | B      | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.7%                 | 1.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0283            | 0.1132 | 0.502   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.7%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.022             | 0.088  | 0.745   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.8%                 | 4.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0271            | 0.1084 | 0.533   | J      |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.7%                 | 1.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0502            | 0.2008 | 5.02    | --     |                 | 5.0                      | 5.0   | 0.01           | 0.1                   | 0.1   | 2.7%                 | 3.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.105             | 0.42   | 0.541   | --     |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0846            | 0.3384 | 14.2    | --     |                 | 14.2                     | 14.2  | 0.01           | 0.1                   | 0.1   | 7.8%                 | 8.5%  |
| OCDF                | 0.132             | 0.528  | 7.02    | B      | <5x*B           | 7.0                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.237             | 0.948  | 104     | --     |                 | 104.0                    | 104.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-77              | 0.0543            | 0.2172 | 12.7    | B      | <5x*B           | 12.7                     | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0528            | 0.2112 | 0.72    | B      | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.811             | 3.244  | 109     | --     |                 | 109.0                    | 109.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-114             | 0.824             | 3.296  | 5.09    | --     |                 | 5.1                      | 5.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.646             | 2.584  | 222     | --     |                 | 222.0                    | 222.0 | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.3%  |
| PCB-123             | 0.753             | 3.012  | 4.77    | --     |                 | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.394             | 1.576  | 4.89    | --     |                 | 4.9                      | 4.9   | 0.1            | 0.5                   | 0.5   | 26.9%                | 29.4% |
| PCB-156             | 0.238             | 0.952  | 44.4    | --     |                 | 44.4                     | 44.4  | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 1.3%  |
| PCB-157             | 0.248             | 0.992  | 11.5    | --     |                 | 11.5                     | 11.5  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.227             | 0.908  | 23.2    | J      |                 | 23.2                     | 11.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0622            | 0.2488 | 0.739   | BI     | <5x*B           | 0.7                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-189             | 5.53              | 22.12  |         | E      | <5x*B           | 2.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 1.1   | 0.5       | 0.5   | 1.8          | 1.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 930               | Fine   | Field | SE S-9  | SE    | Open Space      |                          |       |          |       |                       |       |                      |       |  |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|-------|----------|-------|-----------------------|-------|----------------------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human | Full     | Quant | Full                  | Quant | Full                 | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0501            | 0.2004 | 0.222 | NJ      |       |                 | 0.1                      |       | 0.1      | 0.0   |                       |       | 0.6%                 |       |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0222            | 0.0888 | 0.176 | --      |       |                 | 0.2                      | 0.2   | 1        | 0.2   | 0.2                   | 0.2   | 12.3%                | 17.2% |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.07              | 0.28   | 0.271 | B       | <5x*B |                 | 0.3                      | 0.1   | 0.05     | 0.0   | 0.0                   | 0.0   | 0.9%                 | 0.4%  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.069             | 0.276  | 0.331 | --      |       |                 | 0.3                      | 0.3   | 0.5      | 0.2   | 0.2                   | 0.2   | 9.2%                 | 12.9% |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.183             | 0.732  | 0.461 | --      |       |                 | 0.5                      | 0.2   | 1        | 0.5   | 0.2                   | 0.2   | 30.7%                | 17.2% |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.319             | 1.276  |       | --      |       |                 | 0.2                      |       | 0.1      | 0.0   |                       |       | 1.2%                 |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.0252            | 0.1008 | 0.561 | D       |       |                 | 0.3                      |       | 0.1      | 0.0   |                       |       | 1.8%                 |       |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0404            | 0.1616 | 0.37  | B       | <5x*B |                 | 0.4                      | 0.2   | 0.1      | 0.0   | 0.0                   | 0.0   | 2.5%                 | 1.7%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0504            | 0.2016 | 0.454 | B       | <5x*B |                 | 0.5                      | 0.2   | 0.1      | 0.1   | 0.0                   | 0.0   | 3.1%                 | 1.7%  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0347            | 0.1388 | 0.402 | --      |       |                 | 0.4                      | 0.4   | 0.1      | 0.0   | 0.0                   | 0.0   | 2.5%                 | 3.4%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0274            | 0.1096 | 0.509 | --      |       |                 | 0.5                      | 0.5   | 0.1      | 0.1   | 0.1                   | 0.1   | 3.1%                 | 4.3%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0335            | 0.134  | 0.411 | J       |       |                 | 0.4                      | 0.2   | 0.1      | 0.0   | 0.0                   | 0.0   | 2.5%                 | 1.7%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 3.18              | 12.72  |       | D       | <5x*B |                 | 0.8                      |       | 0.01     | 0.0   |                       |       | 0.5%                 |       |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.104             | 0.416  | 0.26  | --      |       |                 | 0.3                      | 0.1   | 0.01     | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0537            | 0.2148 | 10.7  | --      |       |                 | 10.7                     | 10.7  | 0.01     | 0.1   | 0.1                   | 0.1   | 6.6%                 | 9.2%  |  |  |  |  |
| OCDF                | 0.121             | 0.484  | 5.04  | B       | <5x*B |                 | 5.0                      | 2.5   | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| OCDD                | 0.204             | 0.816  | 81.2  | --      |       |                 | 81.2                     | 81.2  | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.5%                 | 0.7%  |  |  |  |  |
| PCB-77              | 0.0392            | 0.1568 | 13.2  | B       | <5x*B |                 | 13.2                     | 6.6   | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |
| PCB-81              | 0.0408            | 0.1632 | 0.718 | B       | <5x*B |                 | 0.7                      | 0.4   | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-105             | 0.471             | 1.884  | 60    | B       | <5x*B |                 | 60.0                     | 30.0  | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.4%                 | 0.3%  |  |  |  |  |
| PCB-114             | 0.479             | 1.916  | 2.49  | B       | <5x*B |                 | 2.5                      | 1.2   | 0.0005   | 0.0   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |
| PCB-118             | 0.385             | 1.54   | 128   | B       | <5x*B |                 | 128.0                    | 64.0  | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.8%                 | 0.5%  |  |  |  |  |
| PCB-123             | 0.449             | 1.796  | 3.35  | --      |       |                 | 3.4                      | 3.4   | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-126             | 0.285             | 1.14   | 3.16  | --      |       |                 | 3.2                      | 3.2   | 0.1      | 0.3   | 0.3                   | 0.3   | 19.6%                | 27.4% |  |  |  |  |
| PCB-156             | 0.292             | 1.168  | 19.8  | --      |       |                 | 19.8                     | 19.8  | 0.0005   | 0.0   | 0.0                   | 0.0   | 0.6%                 | 0.8%  |  |  |  |  |
| PCB-157             | 0.304             | 1.216  | 5.1   | B       | <5x*B |                 | 5.1                      | 2.6   | 0.0005   | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |  |  |  |  |
| PCB-167             | 0.279             | 1.116  | 11.4  | J       |       |                 | 11.4                     | 5.7   | 0.00001  | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-169             | 0.0268            | 0.1072 | 0.414 | B       | <5x*B |                 | 0.4                      | 0.2   | 0.01     | 0.0   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |
| PCB-189             | 0.15              | 0.6    | 2.91  | --      |       |                 | 2.9                      | 2.9   | 0.0001   | 0.0   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.8   | 0.3       | 0.3   | 1.5          | 1.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 221       | Fine              | Field  | SW S-1  | SW   | Open Space      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0169            | 0.0676 | 0.111   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 1.0% |       |      |       |      |
| 2,3,7,8-TCDD        | 0.00987           | 0.0395 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0% |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.102             | 0.408  | 0.171   | --   |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   |                      | 1.0%  | 0.6% |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0843            | 0.3372 | 0.297   | --   |                 | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 14.6%                | 5.9%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0362            | 0.1448 | 0.273   | --   |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 29.1%                | 35.6% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0286            | 0.1144 | 0.222   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 2.4%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0305            | 0.122  | 0.402   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 2.4%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0451            | 0.1804 | 0.367   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 4.7%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0615            | 0.246  | 0.401   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 2.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0116            | 0.0464 | 0.395   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 4.7%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.00911           | 0.0364 | 0.441   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 4.7%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.011             | 0.044  | 0.331   | J    |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 2.4%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0169            | 0.0676 | 1.8     | B    | <5x*B           | 1.8                      | 0.9   | 0.01           | 0.0                   | 0.0   | 1.7%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.034             | 0.136  | 0.205   | --   |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0653            | 0.2612 | 9.79    | --   |                 | 9.8                      | 9.8   | 0.01           | 0.1                   | 0.1   | 9.5%                 | 11.6% |      |       |      |       |      |
| OCDF                | 0.0417            | 0.1668 | 3.73    | B    | <5x*B           | 3.7                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.0821            | 0.3284 | 56.2    | --   |                 | 56.2                     | 56.2  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |      |       |      |       |      |
| PCB-77              | 0.0337            | 0.1348 | 5.64    | BI   | <5x*B           | 5.6                      | 2.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0392            | 0.1568 | 0.382   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.132             | 0.528  | 29.7    | B    | <5x*B           | 29.7                     | 14.9  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-114             | 0.131             | 0.524  | 1.4     | --   |                 | 1.4                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.11              | 0.44   | 61      | B    | <5x*B           | 61.0                     | 30.5  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |      |       |      |       |      |
| PCB-123             | 0.125             | 0.5    | 1.38    | --   |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.127             | 0.508  | 1.57    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 15.5%                | 19.0% |      |       |      |       |      |
| PCB-156             | 0.133             | 0.532  | 17      | B    | <5x*B           | 17.0                     | 8.5   | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.5%  |      |       |      |       |      |
| PCB-157             | 0.134             | 0.536  | 4.17    | B    | <5x*B           | 4.2                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.127             | 0.508  | 9.36    | BJ   | <5x*B           | 9.4                      | 4.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0236            | 0.0944 | 0.456   | BI   | <5x*B           | 0.5                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.2%  |      |       |      |       |      |
| PCB-189             | 2.83              | 11.32  |         | E    |                 | 1.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.5   | 0.2       | 0.2   | 0.8          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 196               | Fine   | Field   | SW S-10 | SW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.106             | 0.424  |         | --      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.0394            | 0.1576 |         | --      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.186             | 0.744  |         | --      |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.165             | 0.66   | 0.339   | --      |                 | 0.3                      | 0.2   | 0.5            | 0.2                   | 0.1   | 17.8%                | 19.0% |
| 1,2,3,7,8-PeCDD     | 0.297             | 1.188  |         | E       |                 | 0.1                      |       | 1              | 0.1                   |       | 11.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.349             | 1.396  |         | EI      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.118             | 0.472  | 0.676   | BI      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 8.3%                 | 5.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.226             | 0.904  | 0.45    | D       |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.473             | 1.892  |         | --      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.426             | 1.704  |         | E       |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0784            | 0.3136 | 0.589   | I       |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 7.1%                 | 11.4% |
| 1,2,3,7,8,9-HxCDD   | 0.26              | 1.04   |         | EJ      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 4.52              | 18.08  |         | D       | <5x*B           | 1.1                      |       | 0.01           | 0.0                   |       | 1.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.51              | 2.04   |         | --      |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.358             | 1.432  | 12.7    | --      |                 | 12.7                     | 12.7  | 0.01           | 0.1                   | 0.1   | 15.0%                | 24.1% |
| OCDF                | 2.11              | 8.44   | 5.72    | BI      | <5x*B           | 5.7                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 3.4               | 13.6   | 95.4    | I       |                 | 95.4                     | 95.4  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.8%  |
| PCB-77              | 0.0876            | 0.3504 | 4.63    | B       | <5x*B           | 4.6                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0794            | 0.3176 | 0.431   | B       | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.102             | 0.408  | 19.5    | B       | <5x*B           | 19.5                     | 9.8   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 0.101             | 0.404  | 1.12    | --      |                 | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.0873            | 0.3492 | 35.6    | B       | <5x*B           | 35.6                     | 17.8  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-123             | 0.0992            | 0.3968 | 1.27    | --      |                 | 1.3                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.123             | 0.492  | 1.91    | --      |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 22.5%                | 36.1% |
| PCB-156             | 0.117             | 0.468  | 10.4    | B       | <5x*B           | 10.4                     | 5.2   | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-157             | 0.118             | 0.472  | 3.27    | B       | <5x*B           | 3.3                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.112             | 0.448  | 7.1     | BJ      | <5x*B           | 7.1                      | 3.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0703            | 0.2812 | 0.38    | B       | <5x*B           | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-189             | 0.146             | 0.584  | 2.22    | --      |                 | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.3   | 0.2       | 0.2   | 0.8          | 0.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 285               | Fine   | Field   | SW S-2 | SW              | Open Space               |       |          |      |                       |      |                      |       |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|------|-----------------------|------|----------------------|-------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |       |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant | Human    | Full | Quant                 | Full | Quant                | Full  | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.00758           | 0.0303 |         | --     |                 | 0.0                      |       | 0.1      | 0.0  |                       | 0.0  |                      | 0.0%  |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0078            | 0.0312 |         | --     |                 | 0.0                      |       | 1        | 0.0  |                       | 0.0  |                      | 0.0%  |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0393            | 0.1572 | 0.0987  | --     |                 | 0.1                      | 0.0   | 0.05     | 0.0  | 0.0                   | 0.0  | 0.0                  | 1.0%  | 0.0%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0916            | 0.3664 |         | E      |                 | 0.0                      |       | 0.5      | 0.0  |                       | 0.0  |                      | 0.0%  |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0202            | 0.0808 | 0.208   | --     |                 | 0.2                      | 0.2   | 1        | 0.2  | 0.2                   | 0.2  | 0.2                  | 40.9% | 45.0% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0177            | 0.0708 | 0.121   | --     |                 | 0.1                      | 0.1   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 2.0%  | 2.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0168            | 0.0672 | 0.199   | B      | <5x*B           | 0.2                      | 0.1   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 4.1%  | 2.2%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0203            | 0.0812 | 0.161   | --     |                 | 0.2                      | 0.2   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 4.1%  | 4.5%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0318            | 0.1272 | 0.319   | B      | <5x*B           | 0.3                      | 0.2   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 6.1%  | 4.5%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.00694           | 0.0278 | 0.245   | --     |                 | 0.2                      | 0.2   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 4.1%  | 4.5%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.00553           | 0.0221 | 0.218   | I      |                 | 0.2                      | 0.2   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 4.1%  | 4.5%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.00661           | 0.0264 | 0.177   | J      |                 | 0.2                      | 0.1   | 0.1      | 0.0  | 0.0                   | 0.0  | 0.0                  | 4.1%  | 2.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.982             | 3.928  |         | DI     | <5x*B           | 0.2                      |       | 0.01     | 0.0  |                       | 0.0  |                      | 0.4%  |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0514            | 0.2056 | 0.14    | --     |                 | 0.1                      | 0.1   | 0.01     | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.2%  | 0.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0361            | 0.1444 | 4.61    | --     |                 | 4.6                      | 4.6   | 0.01     | 0.0  | 0.0                   | 0.0  | 0.0                  | 9.4%  | 10.3% |      |       |      |       |
| OCDF                | 0.0337            | 0.1348 | 2.29    | B      | <5x*B           | 2.3                      | 1.1   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.0%  | 0.0%  |      |       |      |       |
| OCDD                | 0.0382            | 0.1528 | 33.1    | B      | <5x*B           | 33.1                     | 16.6  | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.7%  | 0.4%  |      |       |      |       |
| PCB-77              | 0.0378            | 0.1512 | 4.61    | B      | <5x*B           | 4.6                      | 2.3   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.1%  | 0.1%  |      |       |      |       |
| PCB-81              | 0.0347            | 0.1388 | 0.32    | B      | <5x*B           | 0.3                      | 0.2   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.0%  | 0.0%  |      |       |      |       |
| PCB-105             | 0.098             | 0.392  | 15.7    | B      | <5x*B           | 15.7                     | 7.9   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.3%  | 0.2%  |      |       |      |       |
| PCB-114             | 0.0967            | 0.3868 |         | --     |                 | 0.0                      |       | 0.0005   | 0.0  |                       | 0.0  |                      | 0.0%  |       |      |       |      |       |
| PCB-118             | 0.0814            | 0.3256 | 30.4    | BI     | <5x*B           | 30.4                     | 15.2  | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.6%  | 0.3%  |      |       |      |       |
| PCB-123             | 0.0925            | 0.37   | 1.01    | I      |                 | 1.0                      | 1.0   | 0.0001   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.0%  | 0.0%  |      |       |      |       |
| PCB-126             | 0.0468            | 0.1872 | 0.821   | --     |                 | 0.8                      | 0.8   | 0.1      | 0.1  | 0.1                   | 0.1  | 0.1                  | 16.4% | 18.0% |      |       |      |       |
| PCB-156             | 0.0779            | 0.3116 | 6.83    | B      | <5x*B           | 6.8                      | 3.4   | 0.0005   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.7%  | 0.4%  |      |       |      |       |
| PCB-157             | 0.0786            | 0.3144 | 2.12    | B      | <5x*B           | 2.1                      | 1.1   | 0.0005   | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.2%  | 0.1%  |      |       |      |       |
| PCB-167             | 0.0745            | 0.298  | 3.7     | BJ     | <5x*B           | 3.7                      | 1.9   | 0.00001  | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.0%  | 0.0%  |      |       |      |       |
| PCB-169             | 0.0106            | 0.0424 | 0.187   | B      | <5x*B           | 0.2                      | 0.1   | 0.01     | 0.0  | 0.0                   | 0.0  | 0.0                  | 0.4%  | 0.2%  |      |       |      |       |
| PCB-189             | 0.055             | 0.22   |         | --     |                 | 0.0                      |       | 0.0001   | 0.0  |                       | 0.0  |                      | 0.0%  |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.2   | 0.1       | 0.1   | 0.3          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 440       | Fine              | Field  | SW S-3  | SW   | Open Space      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0807            | 0.3228 | 1.33    | NJ   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 0.6%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0137            | 0.0548 | 0.327   | --   |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 2.6%                 | 2.7%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0503            | 0.2012 | 0.946   | --   |                 | 0.9                      | 0.9   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0458            | 0.1832 | 3.08    | --   |                 | 3.1                      | 3.1   | 0.5            | 1.6                   | 1.6   | 13.7%                | 14.1% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0321            | 0.1284 | 1.77    | --   |                 | 1.8                      | 1.8   | 1              | 1.8                   | 1.8   | 15.9%                | 16.4% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.127             | 0.508  | 1.99    | --   |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 1.8%                 | 1.8%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.111             | 0.444  | 1.75    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 1.6%                 | 1.6%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.149             | 0.596  | 2.67    | --   |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 2.4%                 | 2.5%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.167             | 0.668  | 0.738   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.6%                 | 0.6%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0485            | 0.194  | 2.71    | --   |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 2.4%                 | 2.5%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0456            | 0.1824 | 5.3     | --   |                 | 5.3                      | 5.3   | 0.1            | 0.5                   | 0.5   | 4.7%                 | 4.8%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0469            | 0.1876 | 4.08    | J    |                 | 4.1                      | 2.0   | 0.1            | 0.4                   | 0.2   | 3.6%                 | 1.8%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0605            | 0.242  | 25.3    | --   |                 | 25.3                     | 25.3  | 0.01           | 0.3                   | 0.3   | 2.2%                 | 2.3%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0986            | 0.3944 | 1.92    | --   |                 | 1.9                      | 1.9   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0182            | 0.0728 | 102     | --   |                 | 102.0                    | 102.0 | 0.01           | 1.0                   | 1.0   | 9.0%                 | 9.3%  |      |       |      |       |      |
| OCDF                | 0.0349            | 0.1396 | 46.2    | J    |                 | 46.2                     | 23.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.0534            | 0.2136 | 835     | --   |                 | 835.0                    | 835.0 | 0.0001         | 0.1                   | 0.1   | 0.7%                 | 0.8%  |      |       |      |       |      |
| PCB-77              | 0.0229            | 0.0916 | 203     | --   |                 | 203.0                    | 203.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-81              | 0.0271            | 0.1084 | 6.42    | --   |                 | 6.4                      | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 3.85              | 15.4   | 640     | CJ   |                 | 640.0                    | 320.0 | 0.0001         | 0.1                   | 0.0   | 0.6%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 4.02              | 16.08  | 24.5    | --   |                 | 24.5                     | 24.5  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 3.96              | 15.84  | 1340    | CJ   |                 | 1340.0                   | 670.0 | 0.0001         | 0.1                   | 0.1   | 1.2%                 | 0.6%  |      |       |      |       |      |
| PCB-123             | 4.5               | 18     | 26.5    | --   |                 | 26.5                     | 26.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.392             | 1.568  | 38.5    | --   |                 | 38.5                     | 38.5  | 0.1            | 3.9                   | 3.9   | 33.9%                | 35.1% |      |       |      |       |      |
| PCB-156             | 0.527             | 2.108  | 240     | --   |                 | 240.0                    | 240.0 | 0.0005         | 0.1                   | 0.1   | 1.1%                 | 1.1%  |      |       |      |       |      |
| PCB-157             | 0.545             | 2.18   | 54.8    | --   |                 | 54.8                     | 54.8  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 0.536             | 2.144  | 132     | --   |                 | 132.0                    | 132.0 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0493            | 0.1972 | 3.97    | --   |                 | 4.0                      | 4.0   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-189             | 0.217             | 0.868  | 38      | --   |                 | 38.0                     | 38.0  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.2               | 6.9   | 4.2       | 4.1   | 11.4         | 11.0  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 456               | Fine   | Field   | SW S-4 | SW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0723            | 0.2892 | 0.195   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.00222           | 0.0089 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.143             | 0.572  |         | E      | <5x*B           | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.21              | 0.84   |         | E      |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0059            | 0.0236 | 0.439   | B      | <5x*B           | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 24.5%                | 15.0% |
| 1,2,3,4,7,8-HxCDF   | 0.029             | 0.116  | 0.377   | B      | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0254            | 0.1016 | 0.365   | --     |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 3.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.031             | 0.124  | 0.31    | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 1.8%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0337            | 0.1348 | 0.326   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 1.8%                 | 2.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0286            | 0.1144 | 0.543   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0232            | 0.0928 | 0.772   | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 6.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0241            | 0.0964 | 0.77    | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 6.0%  |
| 1,2,3,4,6,7,8-HpCDF | 3.33              | 13.32  |         | D      | <5x*B           | 0.8                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0525            | 0.21   | 0.314   | --     |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0682            | 0.2728 | 18.8    | --     |                 | 18.8                     | 18.8  | 0.01           | 0.2                   | 0.2   | 11.5%                | 14.1% |
| OCDF                | 0.0524            | 0.2096 | 6.93    | --     |                 | 6.9                      | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0512            | 0.2048 | 146     | --     |                 | 146.0                    | 146.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.1%  |
| PCB-77              | 0.0233            | 0.0932 | 18.8    | B      | <5x*B           | 18.8                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0288            | 0.1152 | 0.812   | B      | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.365             | 1.46   | 174     | --     |                 | 174.0                    | 174.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.3%  |
| PCB-114             | 0.384             | 1.536  | 7.71    | B      | <5x*B           | 7.7                      | 3.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 0.449             | 1.796  | 398     | --     |                 | 398.0                    | 398.0 | 0.0001         | 0.0                   | 0.0   | 2.4%                 | 3.0%  |
| PCB-123             | 0.494             | 1.976  | 6.36    | --     |                 | 6.4                      | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.224             | 0.896  | 4.94    | --     |                 | 4.9                      | 4.9   | 0.1            | 0.5                   | 0.5   | 30.0%                | 36.7% |
| PCB-156             | 0.238             | 0.952  | 73.3    | --     |                 | 73.3                     | 73.3  | 0.0005         | 0.0                   | 0.0   | 2.2%                 | 2.7%  |
| PCB-157             | 0.248             | 0.992  | 22.3    | --     |                 | 22.3                     | 22.3  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-167             | 0.237             | 0.948  | 37      | --     |                 | 37.0                     | 37.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.509             | 2.036  |         | E      |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.194             | 0.776  | 6.1     | --     |                 | 6.1                      | 6.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.7   | 0.5       | 0.5   | 1.5          | 1.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 267               | Fine   | Field   | SW S-6 | SW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0618            | 0.2472 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0324            | 0.1296 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.158             | 0.632  |         | --     |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |
| 2,3,4,7,8-PeCDF     | 0.128             | 0.512  |         | --     |                 | 0.1                      |       | 0.5            | 0.1                   |       | 7.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.382             | 1.528  |         | E      |                 | 0.2                      |       | 1              | 0.2                   |       | 28.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0453            | 0.1812 | 0.217   | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.0416            | 0.1664 | 0.351   | BI     | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.7%                 | 5.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.0726            | 0.2904 | 0.346   | D      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.9%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.105             | 0.42   | 0.526   | B      | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 7.1%                 | 8.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0358            | 0.1432 | 0.314   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.3%                 | 8.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0344            | 0.1376 | 0.357   | I      |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 5.7%                 | 11.4% |
| 1,2,3,7,8,9-HxCDD   | 0.0383            | 0.1532 | 0.251   | J      |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.3%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 1.42              | 5.68   |         | D      | <5x*B           | 0.4                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.093             | 0.372  |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.143             | 0.572  | 6.82    | --     |                 | 6.8                      | 6.8   | 0.01           | 0.1                   | 0.1   | 9.7%                 | 19.3% |
| OCDF                | 0.31              | 1.24   | 3.49    | B      | <5x*B           | 3.5                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.573             | 2.292  | 49      | --     |                 | 49.0                     | 49.0  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.4%  |
| PCB-77              | 0.0856            | 0.3424 | 4.76    | B      | <5x*B           | 4.8                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0788            | 0.3152 | 0.4     | B      | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.112             | 0.448  | 20.2    | B      | <5x*B           | 20.2                     | 10.1  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.11              | 0.44   | 1.27    | --     |                 | 1.3                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.089             | 0.356  | 46      | BI     | <5x*B           | 46.0                     | 23.0  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-123             | 0.101             | 0.404  | 1.15    | I      |                 | 1.2                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.153             | 0.612  | 1.18    | --     |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 17.1%                | 34.1% |
| PCB-156             | 0.221             | 0.884  | 10.8    | B      | <5x*B           | 10.8                     | 5.4   | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.8%  |
| PCB-157             | 0.222             | 0.888  | 2.91    | B      | <5x*B           | 2.9                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.211             | 0.844  | 6.02    | BJ     | <5x*B           | 6.0                      | 3.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0901            | 0.3604 | 0.265   | B      | <5x*B           | 0.3                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-189             | 0.212             | 0.848  | 2.32    | --     |                 | 2.3                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.1   | 0.1       | 0.1   | 0.6          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 978               | Fine   | Field | SW S-7  | SW    | Open Space      |                          |         |          |      |                       |      |                      |       |       |       |       |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|------|-----------------------|------|----------------------|-------|-------|-------|-------|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |       |       |       |       |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Human                    | Full    | Quant    | Full | Quant                 | Full | Quant                | Full  | Quant | Full  | Quant |  |
| 2,3,7,8-TCDF        | 0.0507            | 0.2028 | 0.228 | NJ      |       | 0.1             |                          | 0.1     |          | 0.0  |                       |      |                      | 0.6%  |       |       |       |  |
| 2,3,7,8-TCDD        | 0.0451            | 0.1804 |       | --      |       | 0.0             |                          | 1       |          | 0.0  |                       |      |                      | 0.0%  |       |       |       |  |
| 1,2,3,7,8-PeCDF     | 0.0406            | 0.1624 | 0.276 | B       | <5x*B | 0.3             | 0.1                      | 0.05    |          | 0.0  |                       | 0.0  |                      | 0.9%  |       | 0.3%  |       |  |
| 2,3,4,7,8-PeCDF     | 0.036             | 0.144  | 0.689 | --      |       | 0.7             | 0.7                      | 0.5     |          | 0.4  |                       | 0.4  |                      | 20.5% |       | 22.8% |       |  |
| 1,2,3,7,8-PeCDD     | 0.0643            | 0.2572 | 0.423 | --      |       | 0.4             | 0.4                      | 1       |          | 0.4  |                       | 0.4  |                      | 23.4% |       | 26.0% |       |  |
| 1,2,3,4,7,8-HxCDF   | 0.389             | 1.556  |       | --      |       | 0.2             |                          | 0.1     |          | 0.0  |                       |      |                      | 1.2%  |       |       |       |  |
| 1,2,3,6,7,8-HxCDF   | 0.045             | 0.18   | 1.07  | D       |       | 0.5             |                          | 0.1     |          | 0.1  |                       |      |                      | 2.9%  |       |       |       |  |
| 2,3,4,6,7,8-HxCDF   | 0.0884            | 0.3536 | 0.612 | B       | <5x*B | 0.6             | 0.3                      | 0.1     |          | 0.1  |                       | 0.0  |                      | 3.5%  |       | 2.0%  |       |  |
| 1,2,3,7,8,9-HxCDF   | 0.109             | 0.436  | 0.479 | B       | <5x*B | 0.5             | 0.2                      | 0.1     |          | 0.1  |                       | 0.0  |                      | 2.9%  |       | 1.3%  |       |  |
| 1,2,3,4,7,8-HxCDD   | 0.0327            | 0.1308 | 0.562 | --      |       | 0.6             | 0.6                      | 0.1     |          | 0.1  |                       | 0.1  |                      | 3.5%  |       | 3.9%  |       |  |
| 1,2,3,6,7,8-HxCDD   | 0.0283            | 0.1132 | 0.632 | --      |       | 0.6             | 0.6                      | 0.1     |          | 0.1  |                       | 0.1  |                      | 3.5%  |       | 3.9%  |       |  |
| 1,2,3,7,8,9-HxCDD   | 0.0332            | 0.1328 | 0.546 | --      |       | 0.5             | 0.5                      | 0.1     |          | 0.1  |                       | 0.1  |                      | 2.9%  |       | 3.3%  |       |  |
| 1,2,3,4,6,7,8-HpCDF | 4.3               | 17.2   |       | D       | <5x*B | 1.1             |                          | 0.01    |          | 0.0  |                       |      |                      | 0.6%  |       |       |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.0929            | 0.3716 | 0.396 | --      |       | 0.4             | 0.4                      | 0.01    |          | 0.0  |                       | 0.0  |                      | 0.2%  |       | 0.3%  |       |  |
| 1,2,3,4,6,7,8-HpCDD | 0.054             | 0.216  | 14.2  | --      |       | 14.2            | 14.2                     | 0.01    |          | 0.1  |                       | 0.1  |                      | 8.3%  |       | 9.2%  |       |  |
| OCDF                | 0.156             | 0.624  | 6.63  | B       | <5x*B | 6.6             | 3.3                      | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.0%  |       | 0.0%  |       |  |
| OCDD                | 0.2               | 0.8    | 91.1  | --      |       | 91.1            | 91.1                     | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.5%  |       | 0.6%  |       |  |
| PCB-77              | 0.323             | 1.292  | 13.9  | BI      | <5x*B | 13.9            | 7.0                      | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.1%  |       | 0.0%  |       |  |
| PCB-81              | 0.297             | 1.188  | 0.756 | BI      | <5x*B | 0.8             | 0.2                      | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.0%  |       | 0.0%  |       |  |
| PCB-105             | 0.948             | 3.792  | 56.6  | B       | <5x*B | 56.6            | 28.3                     | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.3%  |       | 0.2%  |       |  |
| PCB-114             | 0.963             | 3.852  | 1.71  | B       | <5x*B | 1.7             | 0.4                      | 0.0005  |          | 0.0  |                       | 0.0  |                      | 0.0%  |       | 0.0%  |       |  |
| PCB-118             | 0.768             | 3.072  | 102   | B       | <5x*B | 102.0           | 51.0                     | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.6%  |       | 0.3%  |       |  |
| PCB-123             | 0.895             | 3.58   |       | --      | <5x*B | 0.4             |                          | 0.0001  |          | 0.0  |                       |      |                      | 0.0%  |       |       |       |  |
| PCB-126             | 0.162             | 0.648  | 3.81  | --      |       | 3.8             | 3.8                      | 0.1     |          | 0.4  |                       | 0.4  |                      | 22.2% |       | 24.7% |       |  |
| PCB-156             | 0.384             | 1.536  | 23.2  | --      |       | 23.2            | 23.2                     | 0.0005  |          | 0.0  |                       | 0.0  |                      | 0.7%  |       | 0.8%  |       |  |
| PCB-157             | 0.4               | 1.6    | 6.41  | --      |       | 6.4             | 6.4                      | 0.0005  |          | 0.0  |                       | 0.0  |                      | 0.2%  |       | 0.2%  |       |  |
| PCB-167             | 0.367             | 1.468  | 14.3  | J       |       | 14.3            | 7.2                      | 0.00001 |          | 0.0  |                       | 0.0  |                      | 0.0%  |       | 0.0%  |       |  |
| PCB-169             | 0.05              | 0.2    | 0.57  | B       | <5x*B | 0.6             | 0.3                      | 0.01    |          | 0.0  |                       | 0.0  |                      | 0.4%  |       | 0.2%  |       |  |
| PCB-189             | 0.193             | 0.772  | 4.36  | --      |       | 4.4             | 4.4                      | 0.0001  |          | 0.0  |                       | 0.0  |                      | 0.0%  |       | 0.0%  |       |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.2   | 0.4       | 0.4   | 1.9          | 1.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 532               | Fine   | Field   | SW S-8 | SW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0581            | 0.2324 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0482            | 0.1928 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0613            | 0.2452 |         | --     | <5x*B           | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0552            | 0.2208 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.254             | 1.016  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 23.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.185             | 0.74   |         | D      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0329            | 0.1316 | 0.336   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 11.3% |
| 2,3,4,6,7,8-HxCDF   | 0.0634            | 0.2536 | 0.253   | BI     | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 3.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.0864            | 0.3456 | 0.344   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 3.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0457            | 0.1828 | 0.316   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 11.3% |
| 1,2,3,6,7,8-HxCDD   | 0.221             | 0.884  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0465            | 0.186  | 0.22    | --     |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 7.5%  |
| 1,2,3,4,6,7,8-HpCDF | 1.03              | 4.12   |         | D      | <5x*B           | 0.3                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.207             | 0.828  |         | E      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0482            | 0.1928 | 6.3     | --     |                 | 6.3                      | 6.3   | 0.01           | 0.1                   | 0.1   | 14.7%                | 23.6% |
| OCDF                | 0.207             | 0.828  | 2.55    | B      | <5x*B           | 2.6                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.181             | 0.724  | 38.8    | --     |                 | 38.8                     | 38.8  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.5%  |
| PCB-77              | 0.171             | 0.684  | 3.51    | B      | <5x*B           | 3.5                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.163             | 0.652  | 0.442   | B      | <5x*B           | 0.4                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.143             | 0.572  | 14.5    | B      | <5x*B           | 14.5                     | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.143             | 0.572  | 0.855   | B      | <5x*B           | 0.9                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.117             | 0.468  | 30.8    | B      | <5x*B           | 30.8                     | 15.4  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-123             | 0.128             | 0.512  | 0.881   | B      | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0852            | 0.3408 | 0.89    | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 21.0%                | 33.8% |
| PCB-156             | 0.132             | 0.528  | 4.96    | --     |                 | 5.0                      | 5.0   | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-157             | 0.132             | 0.528  | 1.26    | B      | <5x*B           | 1.3                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.119             | 0.476  | 2.44    | B      | <5x*B           | 2.4                      | 1.2   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0491            | 0.1964 | 0.876   | B      | <5x*B           | 0.9                      | 0.4   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 1.5%  |
| PCB-189             | 0.792             | 3.168  |         | E      | <5x*B           | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.1       | 0.1   | 0.3          | 0.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 260               | Fine   | Field   | SW S-9 | SW              | Open Space               |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0888            | 0.3552 | 0.207   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.0261            | 0.1044 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.112             | 0.448  | 0.398   | --     |                 | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.3%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.0897            | 0.3588 | 0.396   | --     |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 12.6%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.136             | 0.544  | 0.47    | --     |                 | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 31.4%                | 18.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0356            | 0.1424 | 0.478   | I      |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 4.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0366            | 0.1464 | 0.756   | BI     | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 5.0%                 | 3.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.121             | 0.484  | 0.652   | D      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.129             | 0.516  | 0.851   | B      | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 5.7%                 | 3.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.521             | 2.084  |         | E      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0346            | 0.1384 | 0.609   | I      |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 3.8%                 | 5.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0388            | 0.1552 | 0.434   | J      |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 1.9%  |
| 1,2,3,4,6,7,8-HpCDF | 3.38              | 13.52  |         | DI     | <5x*B           | 0.8                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.156             | 0.624  | 0.89    | --     |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.145             | 0.58   | 10.5    | --     |                 | 10.5                     | 10.5  | 0.01           | 0.1                   | 0.1   | 6.6%                 | 9.7%  |
| OCDF                | 0.226             | 0.904  | 7.67    | B      | <5x*B           | 7.7                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.337             | 1.348  | 68.9    | --     |                 | 68.9                     | 68.9  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-77              | 0.0235            | 0.094  | 9.63    | BI     | <5x*B           | 9.6                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.025             | 0.1    | 0.554   | BI     | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.0726            | 0.2904 | 33.2    | B      | <5x*B           | 33.2                     | 16.6  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 0.0717            | 0.2868 | 1.56    | --     |                 | 1.6                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.0592            | 0.2368 | 71.3    | B      | <5x*B           | 71.3                     | 35.7  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-123             | 0.0672            | 0.2688 | 1.92    | --     |                 | 1.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.267             | 1.068  | 3.21    | --     |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 20.1%                | 29.7% |
| PCB-156             | 0.046             | 0.184  | 16.6    | B      | <5x*B           | 16.6                     | 8.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-157             | 0.0464            | 0.1856 | 4.37    | B      | <5x*B           | 4.4                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.044             | 0.176  | 10.2    | BJ     | <5x*B           | 10.2                     | 5.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0615            | 0.246  | 0.777   | BI     | <5x*B           | 0.8                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-189             | 0.0433            | 0.1732 | 2.79    | --     |                 | 2.8                      | 2.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.7   | 0.3       | 0.3   | 1.5          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 996       | Fine              | Field  | NE R-1  | NE    | Residential     |                          |        |                |                       |       |                      |       |      |       |      |       |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|-------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |       |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full  |
| 2,3,7,8-TCDF        | 0.272             | 1.088  | 4.1     | NJ    |                 | 2.1                      |        | 0.1            | 0.2                   |       | 0.7%                 |       |      |       |      |       |       |
| 2,3,7,8-TCDD        | 0.0665            | 0.266  | 0.648   | --    |                 | 0.6                      | 0.6    | 1              | 0.6                   | 0.6   | 1.9%                 |       |      |       |      |       | 2.1%  |
| 1,2,3,7,8-PeCDF     | 0.105             | 0.42   | 2.71    | --    |                 | 2.7                      | 2.7    | 0.05           | 0.1                   | 0.1   | 0.4%                 |       |      |       |      |       | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.0815            | 0.326  | 13.6    | --    |                 | 13.6                     | 13.6   | 0.5            | 6.8                   | 6.8   | 21.9%                |       |      |       |      |       | 23.3% |
| 1,2,3,7,8-PeCDD     | 0.0788            | 0.3152 | 4.14    | --    |                 | 4.1                      | 4.1    | 1              | 4.1                   | 4.1   | 13.2%                |       |      |       |      |       | 14.0% |
| 1,2,3,4,7,8-HxCDF   | 0.511             | 2.044  | 6.17    | --    |                 | 6.2                      | 6.2    | 0.1            | 0.6                   | 0.6   | 2.0%                 |       |      |       |      |       | 2.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.453             | 1.812  | 5.55    | --    |                 | 5.6                      | 5.6    | 0.1            | 0.6                   | 0.6   | 1.8%                 |       |      |       |      |       | 1.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.624             | 2.496  | 18.4    | --    |                 | 18.4                     | 18.4   | 0.1            | 1.8                   | 1.8   | 5.9%                 |       |      |       |      |       | 6.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.696             | 2.784  | 1.87    | B     | <5x*B           | 1.9                      | 0.5    | 0.1            | 0.2                   | 0.1   | 0.6%                 |       |      |       |      |       | 0.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.106             | 0.424  | 5.72    | --    |                 | 5.7                      | 5.7    | 0.1            | 0.6                   | 0.6   | 1.8%                 |       |      |       |      |       | 2.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0894            | 0.3576 | 13      | --    |                 | 13.0                     | 13.0   | 0.1            | 1.3                   | 1.3   | 4.2%                 |       |      |       |      |       | 4.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.101             | 0.404  | 10.4    | J     |                 | 10.4                     | 5.2    | 0.1            | 1.0                   | 0.5   | 3.3%                 |       |      |       |      |       | 1.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.159             | 0.636  | 82.3    | --    |                 | 82.3                     | 82.3   | 0.01           | 0.8                   | 0.8   | 2.6%                 |       |      |       |      |       | 2.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.429             | 1.716  | 4.56    | I     |                 | 4.6                      | 4.6    | 0.01           | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.228             | 0.912  | 329     | --    |                 | 329.0                    | 329.0  | 0.01           | 3.3                   | 3.3   | 10.6%                |       |      |       |      |       | 11.3% |
| OCDF                | 0.0893            | 0.3572 | 147     | J     |                 | 147.0                    | 73.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| OCDD                | 0.123             | 0.492  | 2650    | CJ    |                 | 2650.0                   | 1325.0 | 0.0001         | 0.3                   | 0.1   | 0.9%                 |       |      |       |      |       | 0.5%  |
| PCB-77              | 0.165             | 0.66   | 347     | CJ    |                 | 347.0                    | 173.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.1%  |
| PCB-81              | 0.188             | 0.752  | 10.3    | --    |                 | 10.3                     | 10.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| PCB-105             | 43.2              | 172.8  | 3230    | CJ    |                 | 3230.0                   | 1615.0 | 0.0001         | 0.3                   | 0.2   | 1.0%                 |       |      |       |      |       | 0.6%  |
| PCB-114             | 45.1              | 180.4  | --      | <5x*B |                 | 22.6                     |        | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |       |       |
| PCB-118             | 48.1              | 192.4  | 6360    | CJ    |                 | 6360.0                   | 3180.0 | 0.0001         | 0.6                   | 0.3   | 2.0%                 |       |      |       |      |       | 1.1%  |
| PCB-123             | 54.7              | 218.8  | --      | <5x*B |                 | 27.4                     |        | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |       |
| PCB-126             | 2.16              | 8.64   | 67.1    | --    |                 | 67.1                     | 67.1   | 0.1            | 6.7                   | 6.7   | 21.6%                |       |      |       |      |       | 23.0% |
| PCB-156             | 74.6              | 298.4  | 1370    | CJ    |                 | 1370.0                   | 685.0  | 0.0005         | 0.7                   | 0.3   | 2.2%                 |       |      |       |      |       | 1.2%  |
| PCB-157             | 77.1              | 308.4  | 368     | --    |                 | 368.0                    | 368.0  | 0.0005         | 0.2                   | 0.2   | 0.6%                 |       |      |       |      |       | 0.6%  |
| PCB-167             | 75.8              | 303.2  | 629     | CJ    |                 | 629.0                    | 314.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| PCB-169             | 0.122             | 0.488  | 6.14    | --    |                 | 6.1                      | 6.1    | 0.01           | 0.1                   | 0.1   | 0.2%                 |       |      |       |      |       | 0.2%  |
| PCB-189             | 0.844             | 3.376  | 161     | --    |                 | 161.0                    | 161.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 22.3              | 21.3  | 8.6       | 7.8   | 30.9         | 29.1  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 543       | Fine              | Field  | NE R-10 | NE   | Residential     |                          |        |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 1.37              | 5.48   |         | E    |                 | 0.7                      |        | 0.1            | 0.1                   |       |                      |       | 0.4%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.039             | 0.156  | 0.464   | --   |                 | 0.5                      | 0.5    | 1              | 0.5                   | 0.5   | 3.1%                 |       | 3.8%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.116             | 0.464  | 5.43    | --   |                 | 5.4                      | 5.4    | 0.05           | 0.3                   | 0.3   | 1.7%                 |       | 2.0%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 2.33              | 9.32   |         | E    |                 | 1.2                      |        | 0.5            | 0.6                   |       | 3.7%                 |       |       |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0534            | 0.2136 | 1.47    | B    | <5x*B           | 1.5                      | 0.7    | 1              | 1.5                   | 0.7   | 9.4%                 |       | 5.3%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.539             | 2.156  | 7.79    | --   |                 | 7.8                      | 7.8    | 0.1            | 0.8                   | 0.8   | 4.9%                 |       | 5.9%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.458             | 1.832  | 3.86    | --   |                 | 3.9                      | 3.9    | 0.1            | 0.4                   | 0.4   | 2.4%                 |       | 2.9%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 2.27              | 9.08   |         | E    |                 | 1.1                      |        | 0.1            | 0.1                   |       | 0.7%                 |       |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.618             | 2.472  | 1.38    | --   |                 | 1.4                      | 0.7    | 0.1            | 0.1                   | 0.1   | 0.9%                 |       | 0.5%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.185             | 0.74   | 5.62    | --   |                 | 5.6                      | 5.6    | 0.1            | 0.6                   | 0.6   | 3.5%                 |       | 4.2%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.226             | 0.904  | 6.88    | --   |                 | 6.9                      | 6.9    | 0.1            | 0.7                   | 0.7   | 4.3%                 |       | 5.2%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.208             | 0.832  | 3.5     | --   |                 | 3.5                      | 3.5    | 0.1            | 0.4                   | 0.4   | 2.2%                 |       | 2.6%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.087             | 0.348  | 48.2    | --   |                 | 48.2                     | 48.2   | 0.01           | 0.5                   | 0.5   | 3.0%                 |       | 3.6%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.129             | 0.516  | 5.64    | --   |                 | 5.6                      | 5.6    | 0.01           | 0.1                   | 0.1   | 0.3%                 |       | 0.4%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0594            | 0.2376 | 175     | --   |                 | 175.0                    | 175.0  | 0.01           | 1.8                   | 1.8   | 10.9%                |       | 13.2% |       |      |       |      |
| OCDF                | 0.0663            | 0.2652 | 106     | --   |                 | 106.0                    | 106.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| OCDD                | 0.042             | 0.168  | 1680    | --   |                 | 1680.0                   | 1680.0 | 0.0001         | 0.2                   | 0.2   | 1.0%                 |       | 1.3%  |       |      |       |      |
| PCB-77              | 0.066             | 0.264  | 108     | --   |                 | 108.0                    | 108.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| PCB-81              | 0.0626            | 0.2504 | 4.58    | --   |                 | 4.6                      | 4.6    | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 21.9              | 87.6   | 3890    | CJ   |                 | 3890.0                   | 1945.0 | 0.0001         | 0.4                   | 0.2   | 2.4%                 |       | 1.5%  |       |      |       |      |
| PCB-114             | 22.9              | 91.6   | 67.5    | J    |                 | 67.5                     | 16.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 |       | 0.1%  |       |      |       |      |
| PCB-118             | 24.3              | 97.2   | 6870    | CJ   |                 | 6870.0                   | 3435.0 | 0.0001         | 0.7                   | 0.3   | 4.3%                 |       | 2.6%  |       |      |       |      |
| PCB-123             | 27.6              | 110.4  | 338     | J    |                 | 338.0                    | 169.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.1%  |       |      |       |      |
| PCB-126             | 1.89              | 7.56   | 51.2    | --   |                 | 51.2                     | 51.2   | 0.1            | 5.1                   | 5.1   | 31.9%                |       | 38.5% |       |      |       |      |
| PCB-156             | 3.17              | 12.68  | 2030    | CJ   |                 | 2030.0                   | 1015.0 | 0.0005         | 1.0                   | 0.5   | 6.3%                 |       | 3.8%  |       |      |       |      |
| PCB-157             | 3.28              | 13.12  | 509     | --   |                 | 509.0                    | 509.0  | 0.0005         | 0.3                   | 0.3   | 1.6%                 |       | 1.9%  |       |      |       |      |
| PCB-167             | 3.23              | 12.92  | 988     | CJ   |                 | 988.0                    | 494.0  | 0.00001        | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.191             | 0.764  | 4.22    | --   |                 | 4.2                      | 4.2    | 0.01           | 0.0                   | 0.0   | 0.3%                 |       | 0.3%  |       |      |       |      |
| PCB-189             | 2.19              | 8.76   | 196     | J    |                 | 196.0                    | 98.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 8.7               | 7.1   | 7.5       | 6.4   | 16.2         | 13.5  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 540               | Fine   | Field | NE R-2  | NE    | Residential     |                          |         |          |       |                       |       |                      |       |       |       |      |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0531            | 0.2124 | 0.883 | NJ      |       | 0.4             |                          | 0.1     |          | 0.0   |                       |       |                      |       | 0.4%  |       |      |       |
| 2,3,7,8-TCDD        | 0.35              | 1.4    |       | E       |       | 0.2             |                          | 1       |          | 0.2   |                       |       |                      |       | 2.0%  |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0596            | 0.2384 |       | --      |       | 0.0             |                          | 0.05    |          | 0.0   |                       |       |                      |       | 0.0%  |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0376            | 0.1504 | 2.97  | --      |       | 3.0             | 3.0                      | 0.5     |          | 1.5   | 1.5                   |       | 15.3%                |       | 18.2% |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0726            | 0.2904 | 1.41  | --      |       | 1.4             | 1.4                      | 1       |          | 1.4   | 1.4                   |       | 14.3%                |       | 17.0% |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.152             | 0.608  | 2.3   | --      |       | 2.3             | 2.3                      | 0.1     |          | 0.2   | 0.2                   |       | 2.3%                 |       | 2.8%  |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.125             | 0.5    | 2.19  | --      |       | 2.2             | 2.2                      | 0.1     |          | 0.2   | 0.2                   |       | 2.2%                 |       | 2.7%  |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.172             | 0.688  | 4.17  | --      |       | 4.2             | 4.2                      | 0.1     |          | 0.4   | 0.4                   |       | 4.3%                 |       | 5.1%  |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.199             | 0.796  | 0.81  | B       | <5x*B | 0.8             | 0.4                      | 0.1     |          | 0.1   | 0.0                   |       | 0.8%                 |       | 0.5%  |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.108             | 0.432  | 2.65  | --      |       | 2.7             | 2.7                      | 0.1     |          | 0.3   | 0.3                   |       | 2.8%                 |       | 3.3%  |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.112             | 0.448  | 5.99  | --      |       | 6.0             | 6.0                      | 0.1     |          | 0.6   | 0.6                   |       | 6.1%                 |       | 7.3%  |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.114             | 0.456  | 4     | J       |       | 4.0             | 2.0                      | 0.1     |          | 0.4   | 0.2                   |       | 4.1%                 |       | 2.4%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.108             | 0.432  | 54.3  | --      |       | 54.3            | 54.3                     | 0.01    |          | 0.5   | 0.5                   |       | 5.5%                 |       | 6.6%  |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.185             | 0.74   | 2.46  | --      |       | 2.5             | 2.5                      | 0.01    |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.3%  |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.202             | 0.808  | 151   | --      |       | 151.0           | 151.0                    | 0.01    |          | 1.5   | 1.5                   |       | 15.4%                |       | 18.3% |       |      |       |
| OCDF                | 0.135             | 0.54   | 104   | J       |       | 104.0           | 52.0                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |       |      |       |
| OCDD                | 0.16              | 0.64   | 1250  | CJ      |       | 1250.0          | 625.0                    | 0.0001  |          | 0.1   | 0.1                   |       | 1.3%                 |       | 0.8%  |       |      |       |
| PCB-77              | 0.0596            | 0.2384 | 160   | --      |       | 160.0           | 160.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |       |      |       |
| PCB-81              | 0.0679            | 0.2716 | 6.05  | J       |       | 6.1             | 3.0                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-105             | 10.6              | 42.4   | 791   | CJ      |       | 791.0           | 395.5                    | 0.0001  |          | 0.1   | 0.0                   |       | 0.8%                 |       | 0.5%  |       |      |       |
| PCB-114             | 11                | 44     | 23.5  | J       |       | 23.5            | 5.9                      | 0.0005  |          | 0.0   | 0.0                   |       | 0.1%                 |       | 0.0%  |       |      |       |
| PCB-118             | 11.1              | 44.4   | 1520  | CJ      |       | 1520.0          | 760.0                    | 0.0001  |          | 0.2   | 0.1                   |       | 1.5%                 |       | 0.9%  |       |      |       |
| PCB-123             | 12.6              | 50.4   | 48.4  | --      |       | 48.4            | 24.2                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-126             | 1.18              | 4.72   | 17.7  | J       |       | 17.7            | 8.9                      | 0.1     |          | 1.8   | 0.9                   |       | 18.0%                |       | 10.8% |       |      |       |
| PCB-156             | 1.17              | 4.68   | 298   | --      |       | 298.0           | 298.0                    | 0.0005  |          | 0.1   | 0.1                   |       | 1.5%                 |       | 1.8%  |       |      |       |
| PCB-157             | 1.21              | 4.84   | 68.5  | --      |       | 68.5            | 68.5                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.3%                 |       | 0.4%  |       |      |       |
| PCB-167             | 1.19              | 4.76   | 135   | J       |       | 135.0           | 67.5                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |
| PCB-169             | 0.116             | 0.464  | 1.83  | --      |       | 1.8             | 1.8                      | 0.01    |          | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |       |      |       |
| PCB-189             | 0.596             | 2.384  | 40.4  | --      |       | 40.4            | 40.4                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.4               | 6.9   | 2.2       | 1.1   | 9.6          | 8.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 600               | Fine   | Field | NE R-4  | NE    | Residential     |                          |       |          |       |                       |       |                      |       |       |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|-------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |  |
| 2,3,7,8-TCDF        | 0.0399            | 0.1596 | 0.164 | NJ      |       |                 | 0.1                      |       | 0.1      | 0.0   |                       |       | 0.6%                 |       |       |  |  |  |
| 2,3,7,8-TCDD        | 0.00244           | 0.0098 |       | --      |       |                 | 0.0                      |       | 1        | 0.0   |                       |       | 0.0%                 |       |       |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0109            | 0.0436 | 0.198 | --      |       |                 | 0.2                      | 0.2   | 0.05     | 0.0   | 0.0                   |       | 0.6%                 |       | 0.8%  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.00936           | 0.0374 | 0.28  | --      |       |                 | 0.3                      | 0.3   | 0.5      | 0.2   | 0.2                   |       | 9.5%                 |       | 12.3% |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.439             | 1.756  |       | E       |       |                 | 0.2                      |       | 1        | 0.2   |                       |       | 12.7%                |       |       |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.393             | 1.572  |       | E       | <5x*B |                 | 0.2                      |       | 0.1      | 0.0   |                       |       | 1.3%                 |       |       |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.407             | 1.628  |       | E       |       |                 | 0.2                      |       | 0.1      | 0.0   |                       |       | 1.3%                 |       |       |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.0347            | 0.1388 |       | --      |       |                 | 0.0                      |       | 0.1      | 0.0   |                       |       | 0.0%                 |       |       |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.301             | 1.204  |       | E       |       |                 | 0.2                      |       | 0.1      | 0.0   |                       |       | 1.3%                 |       |       |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.625             | 2.5    |       | E       |       |                 | 0.3                      |       | 0.1      | 0.0   |                       |       | 1.9%                 |       |       |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0103            | 0.0412 | 1.53  | --      |       |                 | 1.5                      | 1.5   | 0.1      | 0.2   | 0.2                   |       | 9.5%                 |       | 12.3% |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0108            | 0.0432 | 1.13  | J       |       |                 | 1.1                      | 0.6   | 0.1      | 0.1   | 0.1                   |       | 7.0%                 |       | 4.9%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.0775            | 0.31   | 7.07  | --      |       |                 | 7.1                      | 7.1   | 0.01     | 0.1   | 0.1                   |       | 4.5%                 |       | 5.8%  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.111             | 0.444  | 0.529 | --      |       |                 | 0.5                      | 0.5   | 0.01     | 0.0   | 0.0                   |       | 0.3%                 |       | 0.4%  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0156            | 0.0624 | 31.6  | --      |       |                 | 31.6                     | 31.6  | 0.01     | 0.3   | 0.3                   |       | 20.1%                |       | 25.9% |  |  |  |
| OCDF                | 0.0284            | 0.1136 | 17.4  | J       |       |                 | 17.4                     | 8.7   | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |  |
| OCDD                | 0.0246            | 0.0984 | 215   | --      |       |                 | 215.0                    | 215.0 | 0.0001   | 0.0   | 0.0                   |       | 1.4%                 |       | 1.8%  |  |  |  |
| PCB-77              | 0.0208            | 0.0832 | 19.5  | --      |       |                 | 19.5                     | 19.5  | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.2%  |  |  |  |
| PCB-81              | 0.0232            | 0.0928 | 0.932 | --      |       |                 | 0.9                      | 0.9   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-105             | 1.45              | 5.8    | 92.2  | --      |       |                 | 92.2                     | 92.2  | 0.0001   | 0.0   | 0.0                   |       | 0.6%                 |       | 0.8%  |  |  |  |
| PCB-114             | 3.5               | 14     |       | E       | <5x*B |                 | 1.8                      |       | 0.0005   | 0.0   |                       |       | 0.1%                 |       |       |  |  |  |
| PCB-118             | 1.32              | 5.28   | 170   | --      |       |                 | 170.0                    | 170.0 | 0.0001   | 0.0   | 0.0                   |       | 1.1%                 |       | 1.4%  |  |  |  |
| PCB-123             | 1.5               | 6      | 5.48  | J       |       |                 | 5.5                      | 1.4   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-126             | 0.114             | 0.456  | 3.82  | --      |       |                 | 3.8                      | 3.8   | 0.1      | 0.4   | 0.4                   |       | 24.1%                |       | 31.2% |  |  |  |
| PCB-156             | 2.14              | 8.56   | 35.2  | --      |       |                 | 35.2                     | 35.2  | 0.0005   | 0.0   | 0.0                   |       | 1.1%                 |       | 1.4%  |  |  |  |
| PCB-157             | 2.21              | 8.84   | 10.5  | --      |       |                 | 10.5                     | 10.5  | 0.0005   | 0.0   | 0.0                   |       | 0.3%                 |       | 0.4%  |  |  |  |
| PCB-167             | 2.17              | 8.68   | 19.6  | J       |       |                 | 19.6                     | 9.8   | 0.00001  | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |
| PCB-169             | 0.0434            | 0.1736 | 0.587 | B       | <5x*B |                 | 0.6                      | 0.3   | 0.01     | 0.0   | 0.0                   |       | 0.4%                 |       | 0.2%  |  |  |  |
| PCB-189             | 0.491             | 1.964  | 4.47  | BJ      | <5x*B |                 | 4.5                      | 2.2   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.9   | 0.4       | 0.4   | 1.5          | 1.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 225       | Fine              | Field  | NE R-5  | NE   | Residential     |                          |        |          |                       |       |                      |       |  |  |  |  |  |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0723            | 0.2892 | 1.85    | NJ   |                 | 0.9                      |        | 0.1      | 0.1                   |       | 0.5%                 |       |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0376            | 0.1504 | 0.528   | --   |                 | 0.5                      | 0.5    | 1        | 0.5                   | 0.5   | 3.0%                 | 3.5%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.083             | 0.332  | 3.5     | --   |                 | 3.5                      | 3.5    | 0.05     | 0.2                   | 0.2   | 1.0%                 | 1.2%  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0748            | 0.2992 | 1.62    | --   |                 | 1.6                      | 1.6    | 0.5      | 0.8                   | 0.8   | 4.7%                 | 5.5%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.105             | 0.42   | 1.69    | B    | <5x*B           | 1.7                      | 0.8    | 1        | 1.7                   | 0.8   | 10.1%                | 5.5%  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.199             | 0.796  | 4.19    | --   |                 | 4.2                      | 4.2    | 0.1      | 0.4                   | 0.4   | 2.5%                 | 2.9%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.17              | 0.68   | 2.08    | --   |                 | 2.1                      | 2.1    | 0.1      | 0.2                   | 0.2   | 1.2%                 | 1.5%  |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.205             | 0.82   | 1.88    | --   |                 | 1.9                      | 1.9    | 0.1      | 0.2                   | 0.2   | 1.1%                 | 1.3%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.237             | 0.948  | 0.96    | --   |                 | 1.0                      | 1.0    | 0.1      | 0.1                   | 0.1   | 0.6%                 | 0.7%  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 2.24              | 8.96   |         | E    | <5x*B           | 1.1                      |        | 0.1      | 0.1                   |       | 0.7%                 |       |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.19              | 0.76   | 7.78    | --   |                 | 7.8                      | 7.8    | 0.1      | 0.8                   | 0.8   | 4.6%                 | 5.4%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.196             | 0.784  | 5.17    | --   |                 | 5.2                      | 5.2    | 0.1      | 0.5                   | 0.5   | 3.1%                 | 3.6%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.093             | 0.372  | 33.2    | --   |                 | 33.2                     | 33.2   | 0.01     | 0.3                   | 0.3   | 2.0%                 | 2.3%  |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.136             | 0.544  | 3.53    | --   |                 | 3.5                      | 3.5    | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.2%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0735            | 0.294  | 184     | --   |                 | 184.0                    | 184.0  | 0.01     | 1.8                   | 1.8   | 10.9%                | 12.7% |  |  |  |  |  |
| OCDF                | 0.0621            | 0.2484 | 66.2    | --   |                 | 66.2                     | 66.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| OCDD                | 0.0486            | 0.1944 | 1570    | --   |                 | 1570.0                   | 1570.0 | 0.0001   | 0.2                   | 0.2   | 0.9%                 | 1.1%  |  |  |  |  |  |
| PCB-77              | 0.0891            | 0.3564 | 150     | --   |                 | 150.0                    | 150.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-81              | 0.101             | 0.404  | 5.15    | --   |                 | 5.2                      | 5.2    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-105             | 61.6              | 246.4  | 4450    | CJ   |                 | 4450.0                   | 2225.0 | 0.0001   | 0.4                   | 0.2   | 2.6%                 | 1.5%  |  |  |  |  |  |
| PCB-114             | 64.4              | 257.6  | 97.4    | J    |                 | 97.4                     | 24.4   | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.1%  |  |  |  |  |  |
| PCB-118             | 55                | 220    | 8390    | CJ   |                 | 8390.0                   | 4195.0 | 0.0001   | 0.8                   | 0.4   | 5.0%                 | 2.9%  |  |  |  |  |  |
| PCB-123             | 62.5              | 250    | 418     | J    |                 | 418.0                    | 209.0  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |  |  |  |  |  |
| PCB-126             | 3.67              | 14.68  | 59.4    | --   |                 | 59.4                     | 59.4   | 0.1      | 5.9                   | 5.9   | 35.2%                | 41.1% |  |  |  |  |  |
| PCB-156             | 6.99              | 27.96  | 2300    | CJ   |                 | 2300.0                   | 1150.0 | 0.0005   | 1.2                   | 0.6   | 6.8%                 | 4.0%  |  |  |  |  |  |
| PCB-157             | 7.23              | 28.92  | 668     | --   |                 | 668.0                    | 668.0  | 0.0005   | 0.3                   | 0.3   | 2.0%                 | 2.3%  |  |  |  |  |  |
| PCB-167             | 7.11              | 28.44  | 1170    | CJ   |                 | 1170.0                   | 585.0  | 0.00001  | 0.0                   | 0.0   | 0.1%                 | 0.0%  |  |  |  |  |  |
| PCB-169             | 0.203             | 0.812  | 4.19    | --   |                 | 4.2                      | 4.2    | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.3%  |  |  |  |  |  |
| PCB-189             | 3.77              | 15.08  | 195     | J    |                 | 195.0                    | 97.5   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.9               | 6.8   | 8.6       | 7.4   | 16.5         | 14.2  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 680               | Fine   | Field   | NE R-6 | NE              | Residential              |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0669            | 0.2676 | 0.529   | NJ     |                 | 0.3                      |       | 0.1      | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.126             | 0.504  |         | E      |                 | 0.1                      |       | 1        | 0.1                   |       | 2.2%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0861            | 0.3444 | 0.589   | --     |                 | 0.6                      | 0.6   | 0.05     | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.0634            | 0.2536 | 0.655   | --     |                 | 0.7                      | 0.7   | 0.5      | 0.4                   | 0.4   | 7.6%                 | 8.1%  |
| 1,2,3,7,8-PeCDD     | 0.0944            | 0.3776 | 0.923   | --     |                 | 0.9                      | 0.9   | 1        | 0.9                   | 0.9   | 19.5%                | 20.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0913            | 0.3652 | 0.955   | --     |                 | 1.0                      | 1.0   | 0.1      | 0.1                   | 0.1   | 2.2%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0802            | 0.3208 | 0.781   | --     |                 | 0.8                      | 0.8   | 0.1      | 0.1                   | 0.1   | 1.7%                 | 1.9%  |
| 2,3,4,6,7,8-HxCDF   | 2.9               | 11.6   |         | D      |                 | 0.7                      |       | 0.1      | 0.1                   |       | 1.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.1194            | 0.4776 | 0.618   | --     |                 | 0.6                      | 0.6   | 0.1      | 0.1                   | 0.1   | 1.3%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0868            | 0.3472 | 1.22    | --     |                 | 1.2                      | 1.2   | 0.1      | 0.1                   | 0.1   | 2.6%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0801            | 0.3204 | 3.02    | --     |                 | 3.0                      | 3.0   | 0.1      | 0.3                   | 0.3   | 6.5%                 | 6.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.073             | 0.292  | 1.5     | J      |                 | 1.5                      | 0.8   | 0.1      | 0.2                   | 0.1   | 3.3%                 | 1.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.172             | 0.688  | 10.8    | --     |                 | 10.8                     | 10.8  | 0.01     | 0.1                   | 0.1   | 2.3%                 | 2.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.331             | 1.324  | 0.885   | --     |                 | 0.9                      | 0.4   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.104             | 0.416  | 63.6    | --     |                 | 63.6                     | 63.6  | 0.01     | 0.6                   | 0.6   | 13.8%                | 14.7% |
| OCDF                | 0.118             | 0.472  | 27.7    | J      |                 | 27.7                     | 13.9  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.154             | 0.616  | 468     | --     |                 | 468.0                    | 468.0 | 0.0001   | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-77              | 0.0609            | 0.2436 | 49.1    | --     |                 | 49.1                     | 49.1  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0807            | 0.3228 | 2.17    | --     |                 | 2.2                      | 2.2   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.359             | 1.436  | 127     | B      | <5x*B           | 127.0                    | 63.5  | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-114             | 0.375             | 1.5    | 4.4     | --     |                 | 4.4                      | 4.4   | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-118             | 0.401             | 1.604  | 250     | B      | <5x*B           | 250.0                    | 125.0 | 0.0001   | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-123             | 0.456             | 1.824  | 6.46    | --     |                 | 6.5                      | 6.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.112             | 0.448  | 14.2    | --     |                 | 14.2                     | 14.2  | 0.1      | 1.4                   | 1.4   | 30.8%                | 32.9% |
| PCB-156             | 0.334             | 1.336  | 59.1    | --     |                 | 59.1                     | 59.1  | 0.0005   | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-157             | 0.346             | 1.384  | 16.1    | --     |                 | 16.1                     | 16.1  | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.34              | 1.36   | 38.2    | J      |                 | 38.2                     | 19.1  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.174             | 0.696  | 1.82    | --     |                 | 1.8                      | 1.8   | 0.01     | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-189             | 0.225             | 0.9    | 10.3    | --     |                 | 10.3                     | 10.3  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.1               | 2.8   | 1.4       | 1.4   | 4.5          | 4.2   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 520       | Fine              | Field  | NE R-7  | NE   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.199             | 0.796  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.00321           | 0.0128 | 0.143   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 5.5%                 | 6.8%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0459            | 0.1836 | 0.269   | --   |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 1.0%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0263            | 0.1052 | 0.321   | I    |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 8.3%                 | 10.2% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0512            | 0.2048 | 0.444   | I    |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 22.0%                | 27.2% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.169             | 0.676  | 0.489   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 1.4%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.139             | 0.556  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.177             | 0.708  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.198             | 0.792  | 0.43    | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 0.7%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0509            | 0.2036 | 0.44    | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 1.4%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0449            | 0.1796 | 1.25    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 7.2%                 | 8.8%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.806             | 3.224  |         | EJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 11.2              | 44.8   |         | D    | <5x*B           | 2.8                      |       | 0.01           | 0.0                   |       | 1.5%                 |       |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.178             | 0.712  | 0.676   | --   |                 | 0.7                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0991            | 0.3964 | 39.8    | --   |                 | 39.8                     | 39.8  | 0.01           | 0.4                   | 0.4   | 21.9%                | 27.0% |      |       |      |       |      |
| OCDF                | 0.0553            | 0.2212 | 32.9    | J    |                 | 32.9                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.0877            | 0.3508 | 467     | --   |                 | 467.0                    | 467.0 | 0.0001         | 0.0                   | 0.0   | 2.6%                 | 3.2%  |      |       |      |       |      |
| PCB-77              | 0.0451            | 0.1804 | 16.2    | B    | <5x*B           | 16.2                     | 8.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.0434            | 0.1736 | 0.936   | BJ   | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.563             | 2.252  | 71.3    | --   |                 | 71.3                     | 71.3  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |      |       |      |       |      |
| PCB-114             | 0.588             | 2.352  | 3.26    | JB   | <5x*B           | 3.3                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.635             | 2.54   | 143     | B    | <5x*B           | 143.0                    | 71.5  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.5%  |      |       |      |       |      |
| PCB-123             | 0.722             | 2.888  | 3.38    | --   |                 | 3.4                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.21              | 0.84   | 2.87    | J    |                 | 2.9                      | 1.4   | 0.1            | 0.3                   | 0.1   | 16.0%                | 9.5%  |      |       |      |       |      |
| PCB-156             | 0.423             | 1.692  | 27.3    | --   |                 | 27.3                     | 27.3  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.9%  |      |       |      |       |      |
| PCB-157             | 0.437             | 1.748  | 7.12    | --   |                 | 7.1                      | 7.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 0.43              | 1.72   | 14.1    | J    |                 | 14.1                     | 7.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0351            | 0.1404 | 0.376   | I    |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-189             | 0.233             | 0.932  | 3.73    | --   |                 | 3.7                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 1.2   | 0.3       | 0.1   | 1.6          | 1.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 552       | Fine              | Field  | NE R-8  | NE   | Residential     |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0457            | 0.1828 | --      |      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0233            | 0.0932 | --      |      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0252            | 0.1008 | --      |      |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0224            | 0.0896 | 0.244   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 9.8%                 | 14.1% |
| 1,2,3,7,8-PeCDD     | 0.306             | 1.224  |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       | 19.7%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.273             | 1.092  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0305            | 0.122  | 0.288   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 1.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0371            | 0.1484 | 0.322   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 4.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0421            | 0.1684 | 0.345   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 4.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0525            | 0.21   | 0.76    | B    | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 7.9%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0642            | 0.2568 | 0.93    | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 8.9%                 | 12.7% |
| 1,2,3,7,8,9-HxCDD   | 0.565             | 2.26   |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 3.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0564            | 0.2256 | 5.43    | --   |                 | 5.4                      | 5.4   | 0.01           | 0.1                   | 0.1   | 5.3%                 | 7.6%  |
| OCDF                | 0.0639            | 0.2556 | 13.8    | --   |                 | 13.8                     | 13.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0902            | 0.3608 | 175     | --   |                 | 175.0                    | 175.0 | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 2.5%  |
| PCB-77              | 0.0375            | 0.15   | 3.98    | B    | <5x*B           | 4.0                      | 2.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.407             | 1.628  |         | E    | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.242             | 0.968  | 29.1    | B    | <5x*B           | 29.1                     | 14.6  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.253             | 1.012  | 1.83    | B    | <5x*B           | 1.8                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.281             | 1.124  | 60.3    | B    | <5x*B           | 60.3                     | 30.2  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-123             | 0.319             | 1.276  | 1.52    | J    |                 | 1.5                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.153             | 0.612  | 1.12    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 10.8%                | 15.6% |
| PCB-156             | 0.42              | 1.68   | 15.6    | --   |                 | 15.6                     | 15.6  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.1%  |
| PCB-157             | 0.434             | 1.736  | 5.28    | --   |                 | 5.3                      | 5.3   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.427             | 1.708  | 9.03    | --   |                 | 9.0                      | 9.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.349             | 1.396  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.293             | 1.172  | 4.12    | --   |                 | 4.1                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.5   | 0.1       | 0.1   | 0.9          | 0.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 208               | Fine   | Field   | NE R-9 | NE              | Residential              |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0592            | 0.2368 | 0.411   | NJ     |                 | 0.2                      |       | 0.1      | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.00629           | 0.0252 | 0.255   | --     |                 | 0.3                      | 0.3   | 1        | 0.3                   | 0.3   | 5.7%                 | 6.4%  |
| 1,2,3,7,8-PeCDF     | 0.0282            | 0.1128 | 0.511   | --     |                 | 0.5                      | 0.5   | 0.05     | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.0242            | 0.0968 | 0.768   | --     |                 | 0.8                      | 0.8   | 0.5      | 0.4                   | 0.4   | 7.7%                 | 8.6%  |
| 1,2,3,7,8-PeCDD     | 0.0174            | 0.0696 | 1.25    | --     |                 | 1.3                      | 1.3   | 1        | 1.3                   | 1.3   | 24.9%                | 27.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0688            | 0.2752 | 1.63    | --     |                 | 1.6                      | 1.6   | 0.1      | 0.2                   | 0.2   | 3.1%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0585            | 0.234  | 1.07    | --     |                 | 1.1                      | 1.1   | 0.1      | 0.1                   | 0.1   | 2.1%                 | 2.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0793            | 0.3172 | --      | <5x*B  | 0.0             |                          | 0.1   |          | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0948            | 0.3792 | 0.638   | B      | <5x*B           | 0.6                      | 0.3   | 0.1      | 0.1                   | 0.0   | 1.1%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0333            | 0.1332 | 1.91    | --     |                 | 1.9                      | 1.9   | 0.1      | 0.2                   | 0.2   | 3.6%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0293            | 0.1172 | 4.62    | --     |                 | 4.6                      | 4.6   | 0.1      | 0.5                   | 0.5   | 8.8%                 | 9.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.0322            | 0.1288 | 2.68    | J      |                 | 2.7                      | 1.3   | 0.1      | 0.3                   | 0.1   | 5.2%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 28.1              | 112.4  |         | D      |                 | 7.0                      |       | 0.01     | 0.1                   |       | 1.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 1.23              | 4.92   |         | E      |                 | 0.6                      |       | 0.01     | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0544            | 0.2176 | 106     | --     |                 | 106.0                    | 106.0 | 0.01     | 1.1                   | 1.1   | 20.3%                | 22.8% |
| OCDF                | 0.0186            | 0.0744 | 45.2    | --     |                 | 45.2                     | 45.2  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0171            | 0.0684 | 857     | --     |                 | 857.0                    | 857.0 | 0.0001   | 0.1                   | 0.1   | 1.6%                 | 1.8%  |
| PCB-77              | 0.049             | 0.196  | 35.2    | --     |                 | 35.2                     | 35.2  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0408            | 0.1632 | 1.67    | BJ     | <5x*B           | 1.7                      | 0.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.943             | 3.772  | 171     | --     |                 | 171.0                    | 171.0 | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-114             | 0.986             | 3.944  | 8.27    | --     |                 | 8.3                      | 8.3   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.12              | 4.48   | 346     | --     |                 | 346.0                    | 346.0 | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-123             | 1.27              | 5.08   | 7.09    | --     |                 | 7.1                      | 7.1   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.128             | 0.512  | 6.03    | J      |                 | 6.0                      | 3.0   | 0.1      | 0.6                   | 0.3   | 11.5%                | 6.4%  |
| PCB-156             | 0.632             | 2.528  | 50.1    | --     |                 | 50.1                     | 50.1  | 0.0005   | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-157             | 0.653             | 2.612  | 13.5    | --     |                 | 13.5                     | 13.5  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.643             | 2.572  | 23.3    | --     |                 | 23.3                     | 23.3  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0478            | 0.1912 | 0.718   | J      |                 | 0.7                      | 0.4   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 5.85              | 23.4   |         | E      |                 | 2.9                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.7               | 4.3   | 0.6       | 0.3   | 5.3          | 4.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 213               | Fine   | Field   | NW R-1 | NW              | Residential              |       |                |                       |       |                      |       |      |       |      |       |      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.161             | 0.644  | 0.281   | BNJ    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |      |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0641            | 0.2564 | 0.122   | --     |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 4.9%                 | 6.5%  |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.166             | 0.664  | 0.829   | --     |                 | 0.8                      | 0.8   | 0.05           | 0.0                   | 0.0   | 2.0%                 | 2.6%  |      |       |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.135             | 0.54   | 0.471   | --     |                 | 0.5                      | 0.2   | 0.5            | 0.3                   | 0.1   | 12.2%                | 6.5%  |      |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.291             | 1.164  | 0.499   | --     |                 | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 24.4%                | 13.0% |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.132             | 0.528  | 0.503   | --     |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.4%                 | 2.0%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.117             | 0.468  | 0.315   | BE     | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.5%                 | 0.7%  |      |       |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.136             | 0.544  | 2.08    | --     |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 10.3%                | 13.7% |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.136             | 0.544  | 2.4     | --     |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 11.7%                | 15.7% |      |       |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0763            | 0.3052 | 0.505   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 3.3%  |      |       |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0635            | 0.254  | 0.585   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.9%  |      |       |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0617            | 0.2468 | 0.495   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 3.3%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 1.74              | 6.96   |         | D      | <5x*B           | 0.4                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |      |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0951            | 0.3804 | 2       | --     |                 | 2.0                      | 2.0   | 0.01           | 0.0                   | 0.0   | 1.0%                 | 1.3%  |      |       |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0456            | 0.1824 | 11.6    | --     |                 | 11.6                     | 11.6  | 0.01           | 0.1                   | 0.1   | 5.7%                 | 7.6%  |      |       |      |       |      |       |
| OCDF                | 0.0825            | 0.33   | 4.51    | --     |                 | 4.5                      | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| OCDD                | 0.0729            | 0.2916 | 80.3    | --     |                 | 80.3                     | 80.3  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |      |       |      |       |      |       |
| PCB-77              | 0.0911            | 0.3644 | 11.3    | B      | <5x*B           | 11.3                     | 5.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |       |
| PCB-81              | 0.0955            | 0.382  | 0.712   | B      | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-105             | 0.495             | 1.98   | 45      | B      | <5x*B           | 45.0                     | 22.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |       |
| PCB-114             | 0.492             | 1.968  |         | --     |                 | 0.2                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |       |
| PCB-118             | 0.38              | 1.52   | 89      | B      | <5x*B           | 89.0                     | 44.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |       |      |       |      |       |
| PCB-123             | 0.428             | 1.712  | 22.4    | --     |                 | 22.4                     | 22.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |       |
| PCB-126             | 0.183             | 0.732  | 2.73    | --     |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 13.2%                | 17.6% |      |       |      |       |      |       |
| PCB-156             | 1.02              | 4.08   | 25.6    | --     |                 | 25.6                     | 25.6  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |      |       |      |       |      |       |
| PCB-157             | 1.08              | 4.32   | 6.38    | --     |                 | 6.4                      | 6.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |      |       |      |       |
| PCB-167             | 0.993             | 3.972  | 15.1    | --     |                 | 15.1                     | 15.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |
| PCB-169             | 0.147             | 0.588  | 0.47    | --     |                 | 0.5                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |       |
| PCB-189             | 0.475             | 1.9    | 6.4     | --     |                 | 6.4                      | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.2   | 0.3       | 0.3   | 2.1          | 1.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 845               | Fine   | Field   | NW R-10 | NW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.409             | 1.636  | 0.922   | NJ      |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0646            | 0.2584 | 6.07    | --      |                 | 6.1                      | 6.1   | 1              | 6.1                   | 6.1   | 57.7%                | 65.8% |
| 1,2,3,7,8-PeCDF     | 0.577             | 2.308  |         | E       |                 | 0.3                      |       | 0.05           | 0.0                   |       | 0.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0919            | 0.3676 | 1       | --      |                 | 1.0                      | 1.0   | 0.5            | 0.5                   | 0.5   | 4.7%                 | 5.4%  |
| 1,2,3,7,8-PeCDD     | 0.996             | 3.984  |         | E       |                 | 0.5                      |       | 1              | 0.5                   |       | 4.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.196             | 0.784  | 1.23    | --      |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 1.1%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.132             | 0.528  | 1.28    | --      |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 1.2%                 | 1.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.163             | 0.652  | 1.85    | --      |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 1.8%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.196             | 0.784  | 0.75    | B       | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 0.8%                 | 0.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0778            | 0.3112 | 1.84    | --      |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 1.7%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0712            | 0.2848 | 3.31    | --      |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 3.1%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0769            | 0.3076 | 2.61    | J       |                 | 2.6                      | 1.3   | 0.1            | 0.3                   | 0.1   | 2.5%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0976            | 0.3904 | 20.9    | --      |                 | 20.9                     | 20.9  | 0.01           | 0.2                   | 0.2   | 2.0%                 | 2.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.144             | 0.576  | 0.971   | --      |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.223             | 0.892  | 68.4    | --      |                 | 68.4                     | 68.4  | 0.01           | 0.7                   | 0.7   | 6.5%                 | 7.4%  |
| OCDF                | 0.0704            | 0.2816 | 41.2    | J       |                 | 41.2                     | 20.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.435             | 1.74   | 488     | --      |                 | 488.0                    | 488.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-77              | 0.0615            | 0.246  | 64      | --      |                 | 64.0                     | 64.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0648            | 0.2592 | 3.38    | B       | <5x*B           | 3.4                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.76              | 7.04   | 324     | --      |                 | 324.0                    | 324.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 1.84              | 7.36   | 13.8    | --      |                 | 13.8                     | 13.8  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.86              | 7.44   | 595     | CJ      |                 | 595.0                    | 297.5 | 0.0001         | 0.1                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-123             | 2.12              | 8.48   | 17.3    | --      |                 | 17.3                     | 17.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.21              | 0.84   | 9.86    | J       |                 | 9.9                      | 4.9   | 0.1            | 1.0                   | 0.5   | 9.4%                 | 5.3%  |
| PCB-156             | 2.2               | 8.8    | 79.3    | --      |                 | 79.3                     | 79.3  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-157             | 2.27              | 9.08   | 18.4    | --      |                 | 18.4                     | 18.4  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 2.24              | 8.96   | 40      | --      |                 | 40.0                     | 40.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.128             | 0.512  | 0.841   | J       |                 | 0.8                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 0.76              | 3.04   | 9.21    | --      |                 | 9.2                      | 9.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.4               | 8.5   | 1.1       | 0.5   | 10.5         | 9.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 559       | Fine              | Field  | NW R-11 | NW   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 1.23              | 4.92   | 1.24    | NJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0851            | 0.3404 | 11.6    | --   |                 | 11.6                     | 11.6  | 1              | 11.6                  | 11.6  | 65.0%                | 66.7% |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.273             | 1.092  | 0.906   | B    | <5x*B           | 0.9                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.199             | 0.796  | 1.3     | --   |                 | 1.3                      | 1.3   | 0.5            | 0.7                   | 0.7   | 3.6%                 | 3.7%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.607             | 2.428  |         | E    | <5x*B           | 0.3                      |       | 1              | 0.3                   |       | 1.7%                 |       |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.242             | 0.968  | 1.98    | --   |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 1.1%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.205             | 0.82   | 3.37    | --   |                 | 3.4                      | 3.4   | 0.1            | 0.3                   | 0.3   | 1.9%                 | 2.0%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.259             | 1.036  | 3.88    | --   |                 | 3.9                      | 3.9   | 0.1            | 0.4                   | 0.4   | 2.2%                 | 2.2%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.278             | 1.112  | 0.712   | --   |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 0.4%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.598             | 2.392  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0521            | 0.2084 | 3.16    | --   |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 1.8%                 | 1.8%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0515            | 0.206  | 1.27    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.7%                 | 0.7%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.104             | 0.416  | 180     | --   |                 | 180.0                    | 180.0 | 0.01           | 1.8                   | 1.8   | 10.1%                | 10.3% |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.166             | 0.664  | 1.3     | --   |                 | 1.3                      | 1.3   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.119             | 0.476  | 80.3    | --   |                 | 80.3                     | 80.3  | 0.01           | 0.8                   | 0.8   | 4.5%                 | 4.6%  |      |       |      |       |      |
| OCDF                | 0.0823            | 0.3292 | 113     | --   |                 | 113.0                    | 113.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.0935            | 0.374  | 504     | --   |                 | 504.0                    | 504.0 | 0.0001         | 0.1                   | 0.1   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-77              | 0.056             | 0.224  | 14.6    | B    | <5x*B           | 14.6                     | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0569            | 0.2276 | 1       | B    | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.597             | 2.388  | 267     | --   |                 | 267.0                    | 267.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |       |      |
| PCB-114             | 0.628             | 2.512  | 10.7    | --   |                 | 10.7                     | 10.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 0.863             | 3.452  | 525     | --   |                 | 525.0                    | 525.0 | 0.0001         | 0.1                   | 0.1   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-123             | 0.95              | 3.8    | 15.5    | --   |                 | 15.5                     | 15.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.161             | 0.644  | 8.48    | --   |                 | 8.5                      | 8.5   | 0.1            | 0.9                   | 0.9   | 4.8%                 | 4.9%  |      |       |      |       |      |
| PCB-156             | 0.492             | 1.968  | 144     | --   |                 | 144.0                    | 144.0 | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-157             | 0.513             | 2.052  | 38.7    | --   |                 | 38.7                     | 38.7  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.491             | 1.964  | 74.5    | --   |                 | 74.5                     | 74.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0652            | 0.2608 | 0.908   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-189             | 0.608             | 2.432  | 21.2    | --   |                 | 21.2                     | 21.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 16.8              | 16.3  | 1.1       | 1.1   | 17.9         | 17.4  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 772               | Fine  | Field | NW R-2  | NW    | Residential     |                          |         |          |       |                       |       |                      |       |  |       |  |
|---------------------|-------------------|-------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|--|-------|--|
| Analyte             | Analytical Limits |       |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |       |  |
|                     | EDL               | QL    | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |  |       |  |
| 2,3,7,8-TCDF        | 0.149             | 0.596 | 0.43  | NJ      |       | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.4%  |  |       |  |
| 2,3,7,8-TCDD        | 0.189             | 0.756 |       | E       |       | 0.1             |                          | 1       |          | 0.1   |                       |       |                      | 2.1%  |  |       |  |
| 1,2,3,7,8-PeCDF     | 0.336             | 1.344 | 0.616 | --      |       | 0.6             | 0.3                      | 0.05    |          | 0.0   |                       | 0.0   |                      | 0.6%  |  | 0.4%  |  |
| 2,3,4,7,8-PeCDF     | 0.232             | 0.928 | 2.52  | --      |       | 2.5             | 2.5                      | 0.5     |          | 1.3   |                       | 1.3   |                      | 26.7% |  | 33.3% |  |
| 1,2,3,7,8-PeCDD     | 0.257             | 1.028 | 0.802 | --      |       | 0.8             | 0.4                      | 1       |          | 0.8   |                       | 0.4   |                      | 17.1% |  | 10.7% |  |
| 1,2,3,4,7,8-HxCDF   | 0.53              | 2.12  | 0.841 | --      |       | 0.8             | 0.4                      | 0.1     |          | 0.1   |                       | 0.0   |                      | 1.7%  |  | 1.1%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.473             | 1.892 | 0.847 | --      |       | 0.8             | 0.4                      | 0.1     |          | 0.1   |                       | 0.0   |                      | 1.7%  |  | 1.1%  |  |
| 2,3,4,6,7,8-HxCDF   | 0.761             | 3.044 | 4.15  | D       |       | 2.1             |                          | 0.1     |          | 0.2   |                       |       |                      | 4.5%  |  |       |  |
| 1,2,3,7,8,9-HxCDF   | 0.726             | 2.904 |       | E       |       | 0.4             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.9%  |  |       |  |
| 1,2,3,4,7,8-HxCDD   | 0.123             | 0.492 | 0.822 | --      |       | 0.8             | 0.8                      | 0.1     |          | 0.1   |                       | 0.1   |                      | 1.7%  |  | 2.1%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.113             | 0.452 | 2.19  | --      |       | 2.2             | 2.2                      | 0.1     |          | 0.2   |                       | 0.2   |                      | 4.7%  |  | 5.9%  |  |
| 1,2,3,7,8,9-HxCDD   | 0.103             | 0.412 | 0.682 | J       |       | 0.7             | 0.3                      | 0.1     |          | 0.1   |                       | 0.0   |                      | 1.5%  |  | 0.8%  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.279             | 1.116 | 8.92  | --      |       | 8.9             | 8.9                      | 0.01    |          | 0.1   |                       | 0.1   |                      | 1.9%  |  | 2.4%  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.732             | 2.928 |       | --      |       | 0.4             |                          | 0.01    |          | 0.0   |                       |       |                      | 0.1%  |  |       |  |
| 1,2,3,4,6,7,8-HpCDD | 0.301             | 1.204 | 45.9  | --      |       | 45.9            | 45.9                     | 0.01    |          | 0.5   |                       | 0.5   |                      | 9.8%  |  | 12.2% |  |
| OCDF                | 1.11              | 4.44  | 23.9  | IJ      |       | 23.9            | 12.0                     | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.1%  |  | 0.0%  |  |
| OCDD                | 0.926             | 3.704 | 328   | I       |       | 328.0           | 328.0                    | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.7%  |  | 0.9%  |  |
| PCB-77              | 0.107             | 0.428 | 47.7  | --      |       | 47.7            | 47.7                     | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.1%  |  | 0.1%  |  |
| PCB-81              | 0.139             | 0.556 | 2.64  | --      |       | 2.6             | 2.6                      | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.0%  |  | 0.0%  |  |
| PCB-105             | 0.372             | 1.488 | 160   | B       |       | 160.0           | 80.0                     | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.3%  |  | 0.2%  |  |
| PCB-114             | 0.389             | 1.556 | 4.96  | --      |       | 5.0             | 5.0                      | 0.0005  |          | 0.0   |                       | 0.0   |                      | 0.1%  |  | 0.1%  |  |
| PCB-118             | 0.42              | 1.68  | 285   | J       | <5x*B | 285.0           | 142.5                    | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.6%  |  | 0.4%  |  |
| PCB-123             | 0.477             | 1.908 | 5.81  | --      |       | 5.8             | 5.8                      | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.0%  |  | 0.0%  |  |
| PCB-126             | 0.222             | 0.888 | 10.1  | --      |       | 10.1            | 10.1                     | 0.1     |          | 1.0   |                       | 1.0   |                      | 21.5% |  | 26.9% |  |
| PCB-156             | 0.385             | 1.54  | 67.1  | --      |       | 67.1            | 67.1                     | 0.0005  |          | 0.0   |                       | 0.0   |                      | 0.7%  |  | 0.9%  |  |
| PCB-157             | 0.398             | 1.592 | 17.9  | --      |       | 17.9            | 17.9                     | 0.0005  |          | 0.0   |                       | 0.0   |                      | 0.2%  |  | 0.2%  |  |
| PCB-167             | 0.392             | 1.568 | 39.5  | J       |       | 39.5            | 19.8                     | 0.00001 |          | 0.0   |                       | 0.0   |                      | 0.0%  |  | 0.0%  |  |
| PCB-169             | 0.179             | 0.716 | 1.26  | --      |       | 1.3             | 1.3                      | 0.01    |          | 0.0   |                       | 0.0   |                      | 0.3%  |  | 0.3%  |  |
| PCB-189             | 0.381             | 1.524 | 11.7  | --      |       | 11.7            | 11.7                     | 0.0001  |          | 0.0   |                       | 0.0   |                      | 0.0%  |  | 0.0%  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.6               | 2.6   | 1.0       | 1.0   | 4.6          | 3.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 274               | Fine  | Field   | NW R-3 | NW              | Residential              |        |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 14.2              | 56.8  |         | --     |                 | 7.1                      |        | 0.1      | 0.7                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 0.663             | 2.652 | 19.3    | --     |                 | 19.3                     | 19.3   | 1        | 19.3                  | 19.3  | 37.4%                | 52.9% |
| 1,2,3,7,8-PeCDF     | 7.78              | 31.12 |         | --     |                 | 3.9                      |        | 0.05     | 0.2                   |       | 0.4%                 |       |
| 2,3,4,7,8-PeCDF     | 5.47              | 21.88 | 5.73    | --     |                 | 5.7                      | 2.9    | 0.5      | 2.9                   | 1.5   | 5.5%                 | 4.0%  |
| 1,2,3,7,8-PeCDD     | 7.29              | 29.16 |         | E      |                 | 3.6                      |        | 1        | 3.6                   |       | 7.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 1.63              | 6.52  | 6.94    | --     |                 | 6.9                      | 6.9    | 0.1      | 0.7                   | 0.7   | 1.3%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDF   | 1.03              | 4.12  | 4.45    | --     |                 | 4.5                      | 4.5    | 0.1      | 0.5                   | 0.5   | 0.9%                 | 1.2%  |
| 2,3,4,6,7,8-HxCDF   | 1.33              | 5.32  | 5.76    | --     |                 | 5.8                      | 5.8    | 0.1      | 0.6                   | 0.6   | 1.1%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDF   | 1.47              | 5.88  | 2.29    | B      | <5x*B           | 2.3                      | 0.6    | 0.1      | 0.2                   | 0.1   | 0.4%                 | 0.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.445             | 1.78  | 6.97    | --     |                 | 7.0                      | 7.0    | 0.1      | 0.7                   | 0.7   | 1.4%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.344             | 1.376 | 28.5    | --     |                 | 28.5                     | 28.5   | 0.1      | 2.9                   | 2.9   | 5.5%                 | 7.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.399             | 1.596 | 17.9    | J      |                 | 17.9                     | 9.0    | 0.1      | 1.8                   | 0.9   | 3.5%                 | 2.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.515             | 2.06  | 114     | --     |                 | 114.0                    | 114.0  | 0.01     | 1.1                   | 1.1   | 2.2%                 | 3.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.666             | 2.664 | 6.75    | --     |                 | 6.8                      | 6.8    | 0.01     | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.261             | 1.044 | 715     | CJ     |                 | 715.0                    | 357.5  | 0.01     | 7.2                   | 3.6   | 13.8%                | 9.8%  |
| OCDF                | 0.359             | 1.436 | 240     | J      |                 | 240.0                    | 120.0  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 1.16              | 4.64  | 5030    | SJ     |                 | 5030.0                   | 2515.0 | 0.0001   | 0.5                   | 0.3   | 1.0%                 | 0.7%  |
| PCB-77              | 0.112             | 0.448 | 385     | CJ     |                 | 385.0                    | 192.5  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.136             | 0.544 | 13.5    | --     |                 | 13.5                     | 13.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 151               | 604   | 2520    | CJ     |                 | 2520.0                   | 1260.0 | 0.0001   | 0.3                   | 0.1   | 0.5%                 | 0.3%  |
| PCB-114             | 157               | 628   |         | --     |                 | 78.5                     |        | 0.0005   | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 356               | 1424  | 5470    | CJ     |                 | 5470.0                   | 2735.0 | 0.0001   | 0.5                   | 0.3   | 1.1%                 | 0.8%  |
| PCB-123             | 404               | 1616  |         | --     |                 | 202.0                    |        | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.35              | 5.4   | 72.4    | J      |                 | 72.4                     | 36.2   | 0.1      | 7.2                   | 3.6   | 14.0%                | 9.9%  |
| PCB-156             | 2.06              | 8.24  | 911     | CJ     |                 | 911.0                    | 455.5  | 0.0005   | 0.5                   | 0.2   | 0.9%                 | 0.6%  |
| PCB-157             | 2.13              | 8.52  | 238     | --     |                 | 238.0                    | 238.0  | 0.0005   | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| PCB-167             | 2.09              | 8.36  | 273     | --     |                 | 273.0                    | 273.0  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.471             | 1.884 | 7.32    | J      |                 | 7.3                      | 3.7    | 0.01     | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.899             | 3.596 | 116     | --     |                 | 116.0                    | 116.0  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 43.0              | 32.3  | 8.7       | 4.3   | 51.7         | 36.6  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 388               | Fine   | Field   | NW R-4 | NW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0658            | 0.2632 | 0.188   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.0757            | 0.3028 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.153             | 0.612  | 0.163   | --     |                 | 0.2                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| 2,3,4,7,8-PeCDF     | 0.764             | 3.056  |         | I      |                 | 0.4                      |       | 0.5            | 0.2                   |       | 13.8%                |       |
| 1,2,3,7,8-PeCDD     | 0.594             | 2.376  |         | I      |                 | 0.3                      |       | 1              | 0.3                   |       | 20.7%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.131             | 0.524  | 0.304   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.547             | 2.188  |         | D      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.141             | 0.564  | 0.485   | --     |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.154             | 0.616  | 0.274   | B      | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0966            | 0.3864 | 0.504   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 7.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0826            | 0.3304 | 0.76    | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 5.5%                 | 12.4% |
| 1,2,3,7,8,9-HxCDD   | 0.0789            | 0.3156 | 0.713   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 4.8%                 | 10.8% |
| 1,2,3,4,6,7,8-HpCDF | 0.101             | 0.404  | 5.67    | J      |                 | 5.7                      | 2.8   | 0.01           | 0.1                   | 0.0   | 3.9%                 | 4.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.128             | 0.512  | 0.3     | --     |                 | 0.3                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0656            | 0.2624 | 17.9    | --     |                 | 17.9                     | 17.9  | 0.01           | 0.2                   | 0.2   | 12.4%                | 27.7% |
| OCDF                | 0.126             | 0.504  | 8.72    | --     |                 | 8.7                      | 8.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0586            | 0.2344 | 110     | --     |                 | 110.0                    | 110.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.7%  |
| PCB-77              | 0.115             | 0.46   | 9.52    | B      | <5x*B           | 9.5                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.133             | 0.532  | 0.676   | --     |                 | 0.7                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.4               | 5.6    | 50.3    | B      | <5x*B           | 50.3                     | 25.2  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-114             | 1.39              | 5.56   | 1.76    | B      | <5x*B           | 1.8                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 1.15              | 4.6    | 106     | B      | <5x*B           | 106.0                    | 53.0  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-123             | 1.3               | 5.2    |         | --     |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.202             | 0.808  | 3.2     | J      |                 | 3.2                      | 1.6   | 0.1            | 0.3                   | 0.2   | 22.1%                | 24.8% |
| PCB-156             | 0.151             | 0.604  | 20.9    | B      | <5x*B           | 20.9                     | 10.5  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-157             | 0.16              | 0.64   | 6.95    | --     |                 | 7.0                      | 7.0   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-167             | 0.147             | 0.588  | 13.4    | J      |                 | 13.4                     | 6.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.282             | 1.128  | 0.322   | --     |                 | 0.3                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 0.275             | 1.1    | 3.93    | --     |                 | 3.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.5   | 0.3       | 0.2   | 1.5          | 0.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 123       | Fine              | Field  | NW R-5  | NW   | Residential     |                          |        |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0259            | 0.1036 | 0.286   | NJ   |                 | 0.1                      |        | 0.1            | 0.0                   |       |                      |       | 0.4%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0268            | 0.1072 |         | --   |                 | 0.0                      |        | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.211             | 0.844  |         | E    |                 | 0.1                      |        | 0.05           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.303             | 1.212  |         | E    |                 | 0.2                      |        | 0.5            | 0.1                   |       |                      |       | 3.6%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0176            | 0.0704 | 0.621   | --   |                 | 0.6                      | 0.6    | 1              | 0.6                   | 0.6   | 21.7%                |       | 24.9% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0166            | 0.0664 | 0.459   | --   |                 | 0.5                      | 0.5    | 0.1            | 0.1                   | 0.1   | 1.8%                 |       | 2.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.808             | 3.232  |         | DE   |                 | 0.2                      |        | 0.1            | 0.0                   |       |                      |       | 0.7%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.0233            | 0.0932 | 0.455   | --   |                 | 0.5                      | 0.5    | 0.1            | 0.1                   | 0.1   | 1.8%                 |       | 2.1%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0372            | 0.1488 | 0.371   | --   |                 | 0.4                      | 0.4    | 0.1            | 0.0                   | 0.0   | 1.4%                 |       | 1.7%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0286            | 0.1144 | 0.694   | --   |                 | 0.7                      | 0.7    | 0.1            | 0.1                   | 0.1   | 2.5%                 |       | 2.9%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0241            | 0.0964 | 1.09    | --   |                 | 1.1                      | 1.1    | 0.1            | 0.1                   | 0.1   | 4.0%                 |       | 4.6%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0247            | 0.0988 | 1.24    | J    |                 | 1.2                      | 0.6    | 0.1            | 0.1                   | 0.1   | 4.3%                 |       | 2.5%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 7.46              | 29.84  |         | D    |                 | 1.9                      |        | 0.01           | 0.0                   |       |                      |       | 0.7%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.158             | 0.632  |         | --   |                 | 0.1                      |        | 0.01           | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.122             | 0.488  | 28.1    | --   |                 | 28.1                     | 28.1   | 0.01           | 0.3                   | 0.3   | 10.1%                |       | 11.7% |       |      |       |      |
| OCDF                | 0.0506            | 0.2024 | 12.5    | J    |                 | 12.5                     | 6.3    | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| OCDD                | 0.1               | 0.4    | 244     | --   |                 | 244.0                    | 244.0  | 0.0001         | 0.0                   | 0.0   | 0.9%                 |       | 1.0%  |       |      |       |      |
| PCB-77              | 0.361             | 1.444  | 69.6    | B    | <5x*B           | 69.6                     | 34.8   | 0.0001         | 0.0                   | 0.0   | 0.3%                 |       | 0.1%  |       |      |       |      |
| PCB-81              | 0.325             | 1.3    | 1.82    | B    | <5x*B           | 1.8                      | 0.9    | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 3.08              | 12.32  | 795     | CJ   |                 | 795.0                    | 397.5  | 0.0001         | 0.1                   | 0.0   | 2.9%                 |       | 1.7%  |       |      |       |      |
| PCB-114             | 3.01              | 12.04  | 43.9    | --   |                 | 43.9                     | 43.9   | 0.0005         | 0.0                   | 0.0   | 0.8%                 |       | 0.9%  |       |      |       |      |
| PCB-118             | 2.3               | 9.2    | 2030    | CJ   |                 | 2030.0                   | 1015.0 | 0.0001         | 0.2                   | 0.1   | 7.3%                 |       | 4.2%  |       |      |       |      |
| PCB-123             | 2.52              | 10.08  | 40.6    | --   |                 | 40.6                     | 40.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.2%  |       |      |       |      |
| PCB-126             | 1.46              | 5.84   | 8.55    | --   |                 | 8.6                      | 8.6    | 0.1            | 0.9                   | 0.9   | 31.1%                |       | 35.7% |       |      |       |      |
| PCB-156             | 0.241             | 0.964  | 131     | --   |                 | 131.0                    | 131.0  | 0.0005         | 0.1                   | 0.1   | 2.4%                 |       | 2.7%  |       |      |       |      |
| PCB-157             | 0.25              | 1      | 33.3    | --   |                 | 33.3                     | 33.3   | 0.0005         | 0.0                   | 0.0   | 0.6%                 |       | 0.7%  |       |      |       |      |
| PCB-167             | 0.221             | 0.884  | 59.3    | --   |                 | 59.3                     | 59.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.0846            | 0.3384 | 0.768   | --   |                 | 0.8                      | 0.8    | 0.01           | 0.0                   | 0.0   | 0.3%                 |       | 0.3%  |       |      |       |      |
| PCB-189             | 0.164             | 0.656  | 7.61    | J    |                 | 7.6                      | 3.8    | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.4   | 1.3       | 1.1   | 2.8          | 2.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 917               | Fine   | Field   | NW R-6 | NW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.285             | 1.14   |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0257            | 0.1028 | 0.174   | --     |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 4.6%                 | 4.9%  |
| 1,2,3,7,8-PeCDF     | 0.0459            | 0.1836 | 0.28    | --     |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.0444            | 0.1776 | 0.369   | --     |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 4.6%                 | 4.9%  |
| 1,2,3,7,8-PeCDD     | 0.0838            | 0.3352 | 0.803   | --     |                 | 0.8                      | 0.8   | 1              | 0.8                   | 0.8   | 18.2%                | 19.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0585            | 0.234  | 0.572   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 1.4%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0522            | 0.2088 | 0.534   | B      | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.0675            | 0.27   | 0.519   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.1%                 | 1.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0736            | 0.2944 | 0.496   | B      | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.5%  |
| 1,2,3,4,7,8-HxCDD   | 1.15              | 4.6    |         | E      |                 | 0.6                      |       | 0.1            | 0.1                   |       | 1.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0435            | 0.174  | 3.84    | --     |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 8.7%                 | 9.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0481            | 0.1924 | 2.44    | J      |                 | 2.4                      | 1.2   | 0.1            | 0.2                   | 0.1   | 5.5%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0683            | 0.2732 | 6.94    | --     |                 | 6.9                      | 6.9   | 0.01           | 0.1                   | 0.1   | 1.6%                 | 1.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0922            | 0.3688 | 0.53    | --     |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.192             | 0.768  | 157     | --     | 157.0           | 157.0                    | 0.01  | 1.6            | 1.6                   | 35.8% | 38.1%                |       |
| OCDF                | 0.0735            | 0.294  | 27.6    | --     |                 | 27.6                     | 27.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.101             | 0.404  | 817     | --     |                 | 817.0                    | 817.0 | 0.0001         | 0.1                   | 0.1   | 1.9%                 | 2.0%  |
| PCB-77              | 0.0672            | 0.2688 | 23.5    | --     |                 | 23.5                     | 23.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0844            | 0.3376 | 0.975   | B      | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.631             | 2.524  | 190     | B      | <5x*B           | 190.0                    | 95.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-114             | 0.627             | 2.508  | 5.47    | B      | <5x*B           | 5.5                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.673             | 2.692  | 379     | B      | <5x*B           | 379.0                    | 189.5 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.5%  |
| PCB-123             | 0.756             | 3.024  | 9.34    | BJ     | <5x*B           | 9.3                      | 4.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.141             | 0.564  | 4.21    | --     |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 9.6%                 | 10.2% |
| PCB-156             | 0.473             | 1.892  | 79.2    | --     |                 | 79.2                     | 79.2  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.0%  |
| PCB-157             | 0.499             | 1.996  | 29.9    | --     |                 | 29.9                     | 29.9  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.46              | 1.84   | 55.2    | --     |                 | 55.2                     | 55.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.108             | 0.432  | 0.444   | --     |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.586             | 2.344  | 6.19    | --     |                 | 6.2                      | 6.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.1               | 3.7   | 0.4       | 0.4   | 4.5          | 4.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 648       | Fine              | Field  | NW R-7  | NW   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.2               | 0.8    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0454            | 0.1816 | 0.176   | --   |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 8.8%                 | 5.6%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.147             | 0.588  | 0.296   | --   |                 | 0.3                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.3%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.124             | 0.496  | 0.426   | --   |                 | 0.4                      | 0.2   | 0.5            | 0.2                   | 0.1   | 8.8%                 | 5.6%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.121             | 0.484  | 0.54    | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 22.0%                | 27.9% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0898            | 0.3592 | 0.895   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 5.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1.48              | 5.92   |         | D    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.101             | 0.404  | 0.814   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 4.5%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.11              | 0.44   | 0.473   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.2%                 | 1.1%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0818            | 0.3272 | 0.689   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 3.9%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0709            | 0.2836 | 1.55    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 7.0%                 | 8.9%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0676            | 0.2704 | 1.1     | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 4.8%                 | 6.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 3.13              | 12.52  | 11      | J    |                 | 11.0                     | 2.8   | 0.01           | 0.1                   | 0.0   | 4.8%                 | 1.6%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 4.84              | 19.36  |         | --   |                 | 2.4                      |       | 0.01           | 0.0                   |       | 1.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.103             | 0.412  | 40.5    | --   |                 | 40.5                     | 40.5  | 0.01           | 0.4                   | 0.4   | 17.8%                | 22.6% |      |       |      |       |      |
| OCDF                | 0.081             | 0.324  | 16.2    | --   |                 | 16.2                     | 16.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| OCDD                | 0.0829            | 0.3316 | 305     | --   |                 | 305.0                    | 305.0 | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.7%  |      |       |      |       |      |
| PCB-77              | 0.0765            | 0.306  | 8.22    | B    | <5x*B           | 8.2                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0734            | 0.2936 | 0.49    | --   |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 1.53              | 6.12   | 34.2    | B    | <5x*B           | 34.2                     | 17.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-114             | 1.76              | 7.04   |         | E    | <5x*B           | 0.9                      |       | 0.0005         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       |      |
| PCB-118             | 1.23              | 4.92   | 74.5    | B    | <5x*B           | 74.5                     | 37.3  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-123             | 1.38              | 5.52   |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.279             | 1.116  | 1.58    | B    | <5x*B           | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 7.0%                 | 4.5%  |      |       |      |       |      |
| PCB-156             | 0.346             | 1.384  | 10.1    | B    | <5x*B           | 10.1                     | 5.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |      |
| PCB-157             | 5.69              | 22.76  |         | E    | <5x*B           | 2.8                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| PCB-167             | 0.336             | 1.344  | 6.8     | BJ   | <5x*B           | 6.8                      | 3.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0731            | 0.2924 | 0.22    | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-189             | 0.173             | 0.692  | 1.29    | BI   | <5x*B           | 1.3                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.1               | 1.7   | 0.2       | 0.1   | 2.3          | 1.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 344       | Fine              | Field  | NW R-8  | NW   | Residential     |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.043             | 0.172  |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.174             | 0.696  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 3.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.083             | 0.332  |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.537             | 2.148  |         | EI   |                 | 0.3                      |       | 0.5            | 0.2                   |       | 5.9%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0623            | 0.2492 | 0.613   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 23.6%                | 33.0% |
| 1,2,3,4,7,8-HxCDF   | 0.17              | 0.68   | 0.515   | --   |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.0%                 | 1.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.147             | 0.588  | 0.432   | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.6%                 | 1.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.191             | 0.764  | 0.673   | --   |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.222             | 0.888  | 0.43    | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.6%                 | 0.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.066             | 0.264  | 0.716   | B    | <5x*B           | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0546            | 0.2184 | 1.71    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 6.7%                 | 9.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0614            | 0.2456 | 1.32    | J    |                 | 1.3                      | 0.7   | 0.1            | 0.1                   | 0.1   | 5.1%                 | 3.8%  |
| 1,2,3,4,6,7,8-HpCDF | 14.7              | 58.8   |         | D    | <5x*B           | 3.7                      |       | 0.01           | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.206             | 0.824  | 0.599   | --   |                 | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0702            | 0.2808 | 48.4    | --   |                 | 48.4                     | 48.4  | 0.01           | 0.5                   | 0.5   | 19.0%                | 26.6% |
| OCDF                | 0.0922            | 0.3688 | 23.3    | J    |                 | 23.3                     | 11.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.106             | 0.424  | 473     | --   |                 | 473.0                    | 473.0 | 0.0001         | 0.0                   | 0.0   | 1.9%                 | 2.6%  |
| PCB-77              | 0.0566            | 0.2264 | 21.1    | B    | <5x*B           | 21.1                     | 10.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0577            | 0.2308 | 0.965   | BJ   | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.551             | 2.204  | 95.2    | --   |                 | 95.2                     | 95.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-114             | 0.575             | 2.3    | 3.65    | JB   | <5x*B           | 3.7                      | 1.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.6               | 2.4    | 190     | --   |                 | 190.0                    | 190.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-123             | 0.681             | 2.724  | 4.39    | --   |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.292             | 1.168  | 4.55    | J    |                 | 4.6                      | 2.3   | 0.1            | 0.5                   | 0.2   | 18.1%                | 12.6% |
| PCB-156             | 0.552             | 2.208  | 61.6    | --   |                 | 61.6                     | 61.6  | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 1.7%  |
| PCB-157             | 0.571             | 2.284  | 16      | --   |                 | 16.0                     | 16.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.561             | 2.244  | 35.6    | J    |                 | 35.6                     | 17.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.112             | 0.448  | 1.15    | --   |                 | 1.2                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-189             | 0.311             | 1.244  | 15.9    | --   |                 | 15.9                     | 15.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.4   | 0.5       | 0.2   | 2.5          | 1.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 697       | Fine              | Field  | NW R-9  | NW   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full  |
| 2,3,7,8-TCDF        | 0.0424            | 0.1696 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |       |       |
| 2,3,7,8-TCDD        | 0.277             | 1.108  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 7.3%                 |       |      |       |      |       |       |
| 1,2,3,7,8-PeCDF     | 0.0196            | 0.0784 | 0.144   | --   |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.4%                 |       |      |       |      |       |       |
| 2,3,4,7,8-PeCDF     | 0.215             | 0.86   |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.6%                 |       |      |       |      |       |       |
| 1,2,3,7,8-PeCDD     | 0.041             | 0.164  | 0.477   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 36.5%                |       |      |       |      |       | 44.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0502            | 0.2008 | 0.24    | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.5%                 |       |      |       |      |       | 1.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.23              | 0.92   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |      |       |      |       |       |
| 2,3,4,6,7,8-HxCDF   | 0.0574            | 0.2296 | 0.323   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 2.2%                 |       |      |       |      |       | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0576            | 0.2304 | 0.365   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.9%                 |       |      |       |      |       | 1.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0727            | 0.2908 | 0.488   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.6%                 |       |      |       |      |       | 1.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0652            | 0.2608 | 0.581   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.4%                 |       |      |       |      |       | 5.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0709            | 0.2836 | 0.62    | J    |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.4%                 |       |      |       |      |       | 2.7%  |
| 1,2,3,4,6,7,8-HpCDF | 2.85              | 11.4   |         | D    | <5x*B           | 0.7                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |      |       |      |       |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0847            | 0.3388 | 0.21    | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0648            | 0.2592 | 13.1    | --   |                 | 13.1                     | 13.1  | 0.01           | 0.1                   | 0.1   | 9.6%                 |       |      |       |      |       | 11.7% |
| OCDF                | 0.0746            | 0.2984 | 5.28    | BJ   | <5x*B           | 5.3                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| OCDD                | 0.0808            | 0.3232 | 105     | --   |                 | 105.0                    | 105.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 |       |      |       |      |       | 0.9%  |
| PCB-77              | 0.0317            | 0.1268 | 12      | B    | <5x*B           | 12.0                     | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.1%  |
| PCB-81              | 0.0315            | 0.126  | 0.523   | B    | <5x*B           | 0.5                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| PCB-105             | 0.638             | 2.552  | 82.1    | --   |                 | 82.1                     | 82.1  | 0.0001         | 0.0                   | 0.0   | 0.6%                 |       |      |       |      |       | 0.7%  |
| PCB-114             | 0.667             | 2.668  | 3       | B    | <5x*B           | 3.0                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       |      |       |      |       | 0.1%  |
| PCB-118             | 0.723             | 2.892  | 182     | --   |                 | 182.0                    | 182.0 | 0.0001         | 0.0                   | 0.0   | 1.3%                 |       |      |       |      |       | 1.6%  |
| PCB-123             | 0.822             | 3.288  | 3.49    | --   |                 | 3.5                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| PCB-126             | 0.156             | 0.624  | 2.43    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 17.5%                |       |      |       |      |       | 21.4% |
| PCB-156             | 0.246             | 0.984  | 34.5    | --   |                 | 34.5                     | 34.5  | 0.0005         | 0.0                   | 0.0   | 1.3%                 |       |      |       |      |       | 1.5%  |
| PCB-157             | 0.255             | 1.02   | 8.99    | --   |                 | 9.0                      | 9.0   | 0.0005         | 0.0                   | 0.0   | 0.3%                 |       |      |       |      |       | 0.4%  |
| PCB-167             | 0.25              | 1      | 19.6    | --   |                 | 19.6                     | 19.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |
| PCB-169             | 0.0362            | 0.1448 | 0.308   | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 |       |      |       |      |       | 0.3%  |
| PCB-189             | 0.0654            | 0.2616 | 4.43    | --   |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       |      |       |      |       | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.7   | 0.2       | 0.2   | 1.3          | 0.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 793               | Fine   | Field   | SE R-1 | SE              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0265            | 0.106  | 0.234   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.00316           | 0.0126 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.171             | 0.684  |         | E      |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.227             | 0.908  |         | E      |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.6%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0161            | 0.0644 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0476            | 0.1904 | 0.308   | B      | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.276             | 1.104  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0506            | 0.2024 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.313             | 1.252  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0244            | 0.0976 | 0.66    | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 6.5%                 | 9.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.0227            | 0.0908 | 1.49    | --     |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 13.9%                | 20.6% |
| 1,2,3,7,8,9-HxCDD   | 0.0235            | 0.094  | 0.996   | J      |                 | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 9.3%                 | 6.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0244            | 0.0976 | 5.24    | --     |                 | 5.2                      | 5.2   | 0.01           | 0.1                   | 0.1   | 4.8%                 | 7.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.465             | 1.86   |         | E      |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0328            | 0.1312 | 34.1    | --     |                 | 34.1                     | 34.1  | 0.01           | 0.3                   | 0.3   | 31.6%                | 46.9% |
| OCDF                | 0.0468            | 0.1872 | 11      | J      |                 | 11.0                     | 5.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0964            | 0.3856 | 282     | --     |                 | 282.0                    | 282.0 | 0.0001         | 0.0                   | 0.0   | 2.6%                 | 3.9%  |
| PCB-77              | 0.0223            | 0.0892 | 7.87    | B      | <5x*B           | 7.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0244            | 0.0976 | 0.538   | --     |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.277             | 1.108  | 37.4    | B      | <5x*B           | 37.4                     | 18.7  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.29              | 1.16   | 1.61    | B      | <5x*B           | 1.6                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.306             | 1.224  | 80.6    | B      | <5x*B           | 80.6                     | 40.3  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-123             | 0.348             | 1.392  | 2.26    | --     |                 | 2.3                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 3.69              | 14.76  |         | E      |                 | 1.8                      |       | 0.1            | 0.2                   |       | 16.7%                |       |
| PCB-156             | 0.196             | 0.784  | 17.2    | B      | <5x*B           | 17.2                     | 8.6   | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |
| PCB-157             | 0.202             | 0.808  | 5.32    | B      | <5x*B           | 5.3                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.199             | 0.796  | 10.6    | --     |                 | 10.6                     | 10.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0396            | 0.1584 | 0.493   | B      | <5x*B           | 0.5                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-189             | 0.183             | 0.732  | 2.69    | B      | <5x*B           | 2.7                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.9               | 0.8   | 0.2       | 0.0   | 1.1          | 0.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 599       | Fine              | Field  | SE R-10 | SE   | Residential     |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.2               | 0.8    |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.4%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.037             | 0.148  |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.373             | 1.492  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       |                      |       | 0.4%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0629            | 0.2516 | 0.333   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 5.8%                 |       | 6.3%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0712            | 0.2848 | 0.638   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 23.1%                |       | 25.3% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.445             | 1.78   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 0.8%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1                 | 4      |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      |       | 1.2%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.144             | 0.576  | 0.557   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.3%                 |       | 1.3%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.619             | 2.476  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      |       | 1.2%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.485             | 1.94   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 0.8%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0758            | 0.3032 | 1.02    | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 3.9%                 |       | 4.2%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0753            | 0.3012 | 0.849   | J    |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.1%                 |       | 1.7%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 6.96              | 27.84  |         | D    |                 | 1.7                      |       | 0.01           | 0.0                   |       |                      |       | 0.7%  |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.547             | 2.188  |         | I    |                 | 0.3                      |       | 0.01           | 0.0                   |       |                      |       | 0.1%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.303             | 1.212  | 20.1    | --   |                 | 20.1                     | 20.1  | 0.01           | 0.2                   | 0.2   | 7.7%                 |       | 8.5%  |       |      |       |      |
| OCDF                | 0.357             | 1.428  | 6.79    | IJ   |                 | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| OCDD                | 0.194             | 0.776  | 154     | I    |                 | 154.0                    | 154.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 |       | 0.6%  |       |      |       |      |
| PCB-77              | 0.129             | 0.516  | 21      | B    | <5x*B           | 21.0                     | 10.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |
| PCB-81              | 0.108             | 0.432  | 0.693   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 0.658             | 2.632  | 63.9    | B    | <5x*B           | 63.9                     | 32.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 |       | 0.1%  |       |      |       |      |
| PCB-114             | 0.644             | 2.576  | 2.69    | --   |                 | 2.7                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| PCB-118             | 0.638             | 2.552  | 159     | BJ   | <5x*B           | 159.0                    | 79.5  | 0.0001         | 0.0                   | 0.0   | 0.6%                 |       | 0.3%  |       |      |       |      |
| PCB-123             | 0.698             | 2.792  |         | --   | <5x*B           | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |       |       |      |       |      |
| PCB-126             | 0.498             | 1.992  | 11.7    | --   |                 | 11.7                     | 11.7  | 0.1            | 1.2                   | 1.2   | 45.1%                |       | 49.3% |       |      |       |      |
| PCB-156             | 0.45              | 1.8    | 44.9    | --   |                 | 44.9                     | 44.9  | 0.0005         | 0.0                   | 0.0   | 0.9%                 |       | 0.9%  |       |      |       |      |
| PCB-157             | 0.468             | 1.872  | 12.9    | --   |                 | 12.9                     | 12.9  | 0.0005         | 0.0                   | 0.0   | 0.2%                 |       | 0.3%  |       |      |       |      |
| PCB-167             | 0.414             | 1.656  | 37.4    | --   |                 | 37.4                     | 37.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.0803            | 0.3212 | 2.3     | --   |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 0.9%                 |       | 1.0%  |       |      |       |      |
| PCB-189             | 0.625             | 2.5    | 14      | J    |                 | 14.0                     | 7.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 1.1   | 1.2       | 1.2   | 2.5          | 2.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 640               | Fine   | Field | SE R-11 | SE    | Residential     |                          |         |          |       |                       |       |                      |       |  |  |  |  |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|--|--|--|--|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0658            | 0.2632 | 0.476 | NJ      |       | 0.2             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.1%  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.75              | 3      |       | E       |       | 0.4             |                          | 1       |          | 0.4   |                       |       |                      | 1.3%  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.509             | 2.036  |       | E       |       | 0.3             |                          | 0.05    |          | 0.0   |                       |       |                      | 0.0%  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0365            | 0.146  | 1.94  | --      |       | 1.9             | 1.9                      | 0.5     |          | 1.0   | 1.0                   |       | 3.0%                 | 4.7%  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0512            | 0.2048 | 3.56  | --      |       | 3.6             | 3.6                      | 1       |          | 3.6   | 3.6                   |       | 11.5%                | 17.8% |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.185             | 0.74   | 4.59  | --      |       | 4.6             | 4.6                      | 0.1     |          | 0.5   | 0.5                   |       | 1.5%                 | 2.3%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.162             | 0.648  | 1.97  | --      |       | 2.0             | 2.0                      | 0.1     |          | 0.2   | 0.2                   |       | 0.6%                 | 1.0%  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.217             | 0.868  | 4.6   | --      |       | 4.6             | 4.6                      | 0.1     |          | 0.5   | 0.5                   |       | 1.5%                 | 2.3%  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.275             | 1.1    | 0.842 | B       | <5x*B | 0.8             | 0.2                      | 0.1     |          | 0.1   | 0.0                   |       | 0.3%                 | 0.1%  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.127             | 0.508  | 11    | --      |       | 11.0            | 11.0                     | 0.1     |          | 1.1   | 1.1                   |       | 3.5%                 | 5.4%  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.117             | 0.468  | 22.5  | --      |       | 22.5            | 22.5                     | 0.1     |          | 2.3   | 2.3                   |       | 7.2%                 | 11.1% |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.126             | 0.504  | 13.1  | J       |       | 13.1            | 6.6                      | 0.1     |          | 1.3   | 0.7                   |       | 4.2%                 | 3.3%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 167               | 668    |       | D       | <5x*B | 41.8            |                          | 0.01    |          | 0.4   |                       |       | 1.3%                 |       |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.2               | 0.8    | 8.05  | --      |       | 8.1             | 8.1                      | 0.01    |          | 0.1   | 0.1                   |       | 0.3%                 | 0.4%  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0606            | 0.2424 | 1830  | CJ      |       | 1830.0          | 915.0                    | 0.01    |          | 18.3  | 9.2                   |       | 58.5%                | 45.3% |  |  |  |  |
| OCDF                | 0.122             | 0.488  | 666   | J       |       | 666.0           | 333.0                    | 0.0001  |          | 0.1   | 0.0                   |       | 0.2%                 | 0.2%  |  |  |  |  |
| OCDD                | 0.121             | 0.484  | 5880  | SJ      |       | 5880.0          | 2940.0                   | 0.0001  |          | 0.6   | 0.3                   |       | 1.9%                 | 1.5%  |  |  |  |  |
| PCB-77              | 0.0656            | 0.2624 | 94.5  | --      |       | 94.5            | 94.5                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-81              | 0.0667            | 0.2668 | 4.28  | B       | <5x*B | 4.3             | 2.1                      | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-105             | 4.05              | 16.2   | 470   | --      |       | 470.0           | 470.0                    | 0.0001  |          | 0.0   | 0.0                   |       | 0.2%                 | 0.2%  |  |  |  |  |
| PCB-114             | 4.24              | 16.96  | 24.3  | J       |       | 24.3            | 12.2                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-118             | 3.93              | 15.72  | 664   | CJ      |       | 664.0           | 332.0                    | 0.0001  |          | 0.1   | 0.0                   |       | 0.2%                 | 0.2%  |  |  |  |  |
| PCB-123             | 4.47              | 17.88  | 29.9  | --      |       | 29.9            | 29.9                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-126             | 0.338             | 1.352  | 7.69  | --      |       | 7.7             | 7.7                      | 0.1     |          | 0.8   | 0.8                   |       | 2.5%                 | 3.8%  |  |  |  |  |
| PCB-156             | 1.21              | 4.84   | 75.5  | --      |       | 75.5            | 75.5                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.1%                 | 0.2%  |  |  |  |  |
| PCB-157             | 1.25              | 5      | 21.4  | --      |       | 21.4            | 21.4                     | 0.0005  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.1%  |  |  |  |  |
| PCB-167             | 1.23              | 4.92   | 41.4  | J       |       | 41.4            | 20.7                     | 0.00001 |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-169             | 0.113             | 0.452  | 1     | --      |       | 1.0             | 1.0                      | 0.01    |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |
| PCB-189             | 0.755             | 3.02   | 14.7  | --      |       | 14.7            | 14.7                     | 0.0001  |          | 0.0   | 0.0                   |       | 0.0%                 | 0.0%  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 30.5              | 19.5  | 0.9       | 0.8   | 31.4         | 20.3  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 761               | Fine   | Field   | SE R-12 | SE              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0709            | 0.2836 | 0.146   | NJ      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0212            | 0.0848 |         | --      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.239             | 0.956  |         | E       |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0822            | 0.3288 | 0.269   | --      |                 | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 7.5%                 | 2.9%  |
| 1,2,3,7,8-PeCDD     | 0.0243            | 0.0972 | 0.613   | --      |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 30.0%                | 34.8% |
| 1,2,3,4,7,8-HxCDF   | 0.331             | 1.324  |         | E       |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 1.08              | 4.32   |         | D       |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0761            | 0.3044 | 0.518   | --      |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.175             | 0.7    |         | --      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.606             | 2.424  |         | E       |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0585            | 0.234  | 0.828   | --      |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0575            | 0.23   | 0.459   | J       |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 9.71              | 38.84  |         | D       |                 | 2.4                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.314             | 1.256  |         | --      |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.12              | 0.48   | 19.7    | --      |                 | 19.7                     | 19.7  | 0.01           | 0.2                   | 0.2   | 9.8%                 | 11.4% |
| OCDF                | 12.1              | 48.4   |         | EIJ     |                 | 6.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.269             | 1.076  | 146     | I       |                 | 146.0                    | 146.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-77              | 0.169             | 0.676  | 28.8    | B       | <5x*B           | 28.8                     | 14.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.142             | 0.568  | 0.998   | B       | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.626             | 2.504  | 99.8    | --      |                 | 99.8                     | 99.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.613             | 2.452  | 2.96    | --      |                 | 3.0                      | 3.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.522             | 2.088  | 225     | BJ      | <5x*B           | 225.0                    | 112.5 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| PCB-123             | 0.571             | 2.284  | 3.94    | --      |                 | 3.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.316             | 1.264  | 6.6     | --      |                 | 6.6                      | 6.6   | 0.1            | 0.7                   | 0.7   | 33.0%                | 38.2% |
| PCB-156             | 0.19              | 0.76   | 36.7    | --      |                 | 36.7                     | 36.7  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.1%  |
| PCB-157             | 0.198             | 0.792  | 10.7    | --      |                 | 10.7                     | 10.7  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.175             | 0.7    | 19.4    | --      |                 | 19.4                     | 19.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0753            | 0.3012 | 0.625   | --      |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.163             | 0.652  | 5.31    | J       |                 | 5.3                      | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 1.1   | 0.7       | 0.7   | 2.0          | 1.8   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 230               | Fine   | Field   | SE R-13 | SE              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|---------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |         | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag    |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.192             | 0.768  |         | E       |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0373            | 0.1492 |         | --      |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.278             | 1.112  |         | E       |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.591             | 2.364  |         | E       |                 | 0.3                      |       | 0.5            | 0.2                   |       | 6.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.913             | 3.652  |         | E       |                 | 0.5                      |       | 1              | 0.5                   |       | 20.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.651             | 2.604  |         | E       |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,6,7,8-HxCDF   | 2.11              | 8.44   |         | D       |                 | 0.5                      |       | 0.1            | 0.1                   |       | 2.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0942            | 0.3768 | 0.929   | --      |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 5.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.203             | 0.812  |         | --      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.034             | 0.136  | 0.998   | --      |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 6.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0301            | 0.1204 | 2.24    | --      |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 9.0%                 | 14.0% |
| 1,2,3,7,8,9-HxCDD   | 0.0301            | 0.1204 | 1.07    | J       |                 | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 3.2%  |
| 1,2,3,4,6,7,8-HpCDF | 16.6              | 66.4   |         | D       |                 | 4.2                      |       | 0.01           | 0.0                   |       | 1.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.291             | 1.164  |         | --      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.167             | 0.668  | 51.5    | --      |                 | 51.5                     | 51.5  | 0.01           | 0.5                   | 0.5   | 21.1%                | 32.8% |
| OCDF                | 0.149             | 0.596  | 26.3    | IJ      |                 | 26.3                     | 13.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0745            | 0.298  | 519     | I       |                 | 519.0                    | 519.0 | 0.0001         | 0.1                   | 0.1   | 2.1%                 | 3.3%  |
| PCB-77              | 0.206             | 0.824  | 27.4    | B       | <5x*B           | 27.4                     | 13.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.174             | 0.696  | 0.964   | B       | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.13              | 8.52   | 94.1    | --      |                 | 94.1                     | 94.1  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-114             | 2.08              | 8.32   | 3.2     | --      |                 | 3.2                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.63              | 6.52   | 178     | BIJ     | <5x*B           | 178.0                    | 89.0  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-123             | 1.78              | 7.12   | 2.69    | I       |                 | 2.7                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.141             | 0.564  | 4.86    | --      |                 | 4.9                      | 4.9   | 0.1            | 0.5                   | 0.5   | 20.1%                | 31.2% |
| PCB-156             | 1.91              | 7.64   | 33.9    | --      |                 | 33.9                     | 33.9  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-157             | 1.99              | 7.96   | 10.8    | --      |                 | 10.8                     | 10.8  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 1.76              | 7.04   | 20.6    | --      |                 | 20.6                     | 20.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0671            | 0.2684 | 0.647   | --      |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-189             | 1.18              | 4.72   | 5.99    | --      |                 | 6.0                      | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.1   | 0.5       | 0.5   | 2.4          | 1.6   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 687               | Fine   | Field   | SE R-2 | SE              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0181            | 0.0724 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0141            | 0.0564 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0288            | 0.1152 | 0.103   | --     |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 2.2%                 | 10.2% |
| 2,3,4,7,8-PeCDF     | 0.053             | 0.212  |         | E      |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.184             | 0.736  |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 44.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0748            | 0.2992 |         | E      | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.168             | 0.672  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0215            | 0.086  |         | --     | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0249            | 0.0996 | 0.365   | B      | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 17.8%                | 40.9% |
| 1,2,3,4,7,8-HxCDD   | 0.0104            | 0.0416 | 0.14    | --     |                 | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.5%                 | 20.4% |
| 1,2,3,6,7,8-HxCDD   | 0.142             | 0.568  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.5%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.148             | 0.592  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.5%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.333             | 1.332  |         | D      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0104            | 0.0416 |         | --     |                 | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0068            | 0.0272 | 1.41    | B      | <5x*B           | 1.4                      | 0.7   | 0.01           | 0.0                   | 0.0   | 6.2%                 | 14.3% |
| OCDF                | 0.0273            | 0.1092 | 0.623   | BJ     | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0288            | 0.1152 | 17.1    | B      | <5x*B           | 17.1                     | 8.6   | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.8%  |
| PCB-77              | 0.039             | 0.156  | 3.96    | B      | <5x*B           | 4.0                      | 2.0   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-81              | 0.0508            | 0.2032 | 0.625   | B      | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.455             | 1.82   | 21.4    | B      | <5x*B           | 21.4                     | 10.7  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 2.2%  |
| PCB-114             | 0.476             | 1.904  | 1.73    | B      | <5x*B           | 1.7                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-118             | 0.494             | 1.976  | 50.6    | BJ     | <5x*B           | 50.6                     | 25.3  | 0.0001         | 0.0                   | 0.0   | 2.3%                 | 5.2%  |
| PCB-123             | 0.911             | 3.644  |         | E      |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.114             | 0.456  |         | --     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.5%                 |       |
| PCB-156             | 0.164             | 0.656  | 6.1     | B      | <5x*B           | 6.1                      | 3.1   | 0.0005         | 0.0                   | 0.0   | 1.4%                 | 3.2%  |
| PCB-157             | 0.169             | 0.676  | 1.72    | B      | <5x*B           | 1.7                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.9%  |
| PCB-167             | 0.167             | 0.668  | 2.86    | B      | <5x*B           | 2.9                      | 1.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0348            | 0.1392 |         | --     | <5x*B           | 0.0                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.237             | 0.948  | 0.787   | B      | <5x*B           | 0.8                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.0       | 0.0   | 0.1          | 0.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 275               | Fine   | Field   | SE R-3 | SE              | Residential              |        |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0382            | 0.1528 | 0.313   | BNJ    | <5x*B           | 0.2                      |        | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0417            | 0.1668 | 0.0751  | --     |                 | 0.1                      | 0.0    | 1              | 0.1                   | 0.0   | 2.2%                 | 0.0%  |
| 1,2,3,7,8-PeCDF     | 0.161             | 0.644  | 0.153   | --     |                 | 0.1                      |        | 0.05           | 0.0                   |       | 0.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.129             | 0.516  | 0.228   | --     |                 | 0.2                      | 0.1    | 0.5            | 0.1                   | 0.1   | 2.2%                 | 1.3%  |
| 1,2,3,7,8-PeCDD     | 0.1               | 0.4    | 0.411   | --     |                 | 0.4                      | 0.4    | 1              | 0.4                   | 0.4   | 8.8%                 | 10.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0949            | 0.3796 | 0.341   | --     |                 | 0.3                      | 0.2    | 0.1            | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0839            | 0.3356 | 0.568   | BD     | <5x*B           | 0.3                      |        | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.109             | 0.436  | 0.399   | B      | <5x*B           | 0.4                      | 0.1    | 0.1            | 0.0                   | 0.0   | 0.9%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.123             | 0.492  | 0.318   | B      | <5x*B           | 0.3                      | 0.1    | 0.1            | 0.0                   | 0.0   | 0.7%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.128             | 0.512  | 0.576   | --     |                 | 0.6                      | 0.6    | 0.1            | 0.1                   | 0.1   | 1.3%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.108             | 0.432  | 0.961   | --     |                 | 1.0                      | 1.0    | 0.1            | 0.1                   | 0.1   | 2.2%                 | 2.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.104             | 0.416  | 0.791   | --     |                 | 0.8                      | 0.8    | 0.1            | 0.1                   | 0.1   | 1.8%                 | 2.0%  |
| 1,2,3,4,6,7,8-HpCDF | 5.26              | 21.04  |         | D      | <5x*B           | 1.3                      |        | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.1               | 0.4    | 0.359   | --     |                 | 0.4                      | 0.2    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0506            | 0.2024 | 24.9    | --     |                 | 24.9                     | 24.9   | 0.01           | 0.2                   | 0.2   | 5.5%                 | 6.4%  |
| OCDF                | 0.071             | 0.284  | 10.9    | --     |                 | 10.9                     | 10.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.063             | 0.252  | 212     | --     |                 | 212.0                    | 212.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-77              | 0.394             | 1.576  | 77.7    | --     |                 | 77.7                     | 77.7   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.42              | 1.68   | 3.72    | B      | <5x*B           | 3.7                      | 1.9    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.73              | 6.92   | 2360    | CJ     |                 | 2360.0                   | 1180.0 | 0.0001         | 0.2                   | 0.1   | 5.2%                 | 3.0%  |
| PCB-114             | 1.72              | 6.88   | 154     | --     |                 | 154.0                    | 154.0  | 0.0005         | 0.1                   | 0.1   | 1.7%                 | 2.0%  |
| PCB-118             | 1.38              | 5.52   | 5020    | CJ     |                 | 5020.0                   | 2510.0 | 0.0001         | 0.5                   | 0.3   | 11.0%                | 6.4%  |
| PCB-123             | 1.56              | 6.24   |         | --     |                 | 0.8                      |        | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.408             | 1.632  | 20.2    | --     |                 | 20.2                     | 20.2   | 0.1            | 2.0                   | 2.0   | 44.3%                | 51.6% |
| PCB-156             | 1.33              | 5.32   | 682     | --     |                 | 682.0                    | 682.0  | 0.0005         | 0.3                   | 0.3   | 7.5%                 | 8.7%  |
| PCB-157             | 1.41              | 5.64   | 164     | --     |                 | 164.0                    | 164.0  | 0.0005         | 0.1                   | 0.1   | 1.8%                 | 2.1%  |
| PCB-167             | 1.3               | 5.2    | 272     | --     |                 | 272.0                    | 272.0  | 0.00001        | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-169             | 0.216             | 0.864  | 0.952   | --     |                 | 1.0                      | 1.0    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 0.383             | 1.532  | 26      | --     |                 | 26.0                     | 26.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 1.0   | 3.2       | 2.9   | 4.3          | 3.9   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 331       | Fine              | Field  | SE R-4 | SE      | Residential |                 |                          |       |          |       |                       |       |                      |       |       |  |  |
|---------------------|-------------------|--------|--------|---------|-------------|-----------------|--------------------------|-------|----------|-------|-----------------------|-------|----------------------|-------|-------|--|--|
| Analyte             | Analytical Limits |        |        | Results |             | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |  |
|                     | EDL               | QL     | Conc   | Flag    | Full        |                 | Quant                    | Human | Full     | Quant | Full                  | Quant | Full                 | Quant |       |  |  |
| 2,3,7,8-TCDF        | 0.092             | 0.368  | 0.29   | NJ      |             |                 | 0.1                      |       | 0.1      | 0.0   |                       |       | 0.6%                 |       |       |  |  |
| 2,3,7,8-TCDD        | 0.117             | 0.468  |        | --      |             |                 | 0.1                      |       | 1        | 0.1   |                       |       | 5.9%                 |       |       |  |  |
| 1,2,3,7,8-PeCDF     | 0.301             | 1.204  | 0.319  | B       | <5x*B       |                 | 0.3                      | 0.1   | 0.05     | 0.0   | 0.0                   |       | 0.9%                 |       | 0.5%  |  |  |
| 2,3,4,7,8-PeCDF     | 0.244             | 0.976  | 0.506  | --      |             |                 | 0.5                      | 0.3   | 0.5      | 0.3   | 0.2                   |       | 14.8%                |       | 13.9% |  |  |
| 1,2,3,7,8-PeCDD     | 0.454             | 1.816  |        | E       | <5x*B       |                 | 0.2                      |       | 1        | 0.2   |                       |       | 11.9%                |       |       |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.112             | 0.448  | 0.493  | --      |             |                 | 0.5                      | 0.5   | 0.1      | 0.1   | 0.1                   |       | 3.0%                 |       | 4.6%  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.1               | 0.4    | 0.653  | B       | <5x*B       |                 | 0.7                      | 0.3   | 0.1      | 0.1   | 0.0                   |       | 4.1%                 |       | 2.8%  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.721             | 2.884  |        | E       | <5x*B       |                 | 0.4                      |       | 0.1      | 0.0   |                       |       | 2.4%                 |       |       |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.155             | 0.62   | 0.607  | B       | <5x*B       |                 | 0.6                      | 0.2   | 0.1      | 0.1   | 0.0                   |       | 3.6%                 |       | 1.9%  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0825            | 0.33   | 0.467  | J       |             |                 | 0.5                      | 0.2   | 0.1      | 0.1   | 0.0                   |       | 3.0%                 |       | 1.9%  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0719            | 0.2876 | 0.937  | --      |             |                 | 0.9                      | 0.9   | 0.1      | 0.1   | 0.1                   |       | 5.3%                 |       | 8.3%  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.591             | 2.364  |        | EJ      | <5x*B       |                 | 0.3                      |       | 0.1      | 0.0   |                       |       | 1.8%                 |       |       |  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.132             | 0.528  | 4.83   | --      |             |                 | 4.8                      | 4.8   | 0.01     | 0.0   | 0.0                   |       | 2.8%                 |       | 4.4%  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.223             | 0.892  | 0.371  | --      |             |                 | 0.4                      | 0.2   | 0.01     | 0.0   | 0.0                   |       | 0.2%                 |       | 0.2%  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0994            | 0.3976 | 25.5   | --      |             |                 | 25.5                     | 25.5  | 0.01     | 0.3   | 0.3                   |       | 15.1%                |       | 23.6% |  |  |
| OCDF                | 0.104             | 0.416  | 12.6   | --      |             |                 | 12.6                     | 12.6  | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |
| OCDD                | 0.147             | 0.588  | 240    | --      |             |                 | 240.0                    | 240.0 | 0.0001   | 0.0   | 0.0                   |       | 1.4%                 |       | 2.2%  |  |  |
| PCB-77              | 0.13              | 0.52   | 11.6   | --      |             |                 | 11.6                     | 11.6  | 0.0001   | 0.0   | 0.0                   |       | 0.1%                 |       | 0.1%  |  |  |
| PCB-81              | 0.192             | 0.768  | 1.24   | B       | <5x*B       |                 | 1.2                      | 0.6   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |
| PCB-105             | 4.37              | 17.48  | 70.9   | --      |             |                 | 70.9                     | 70.9  | 0.0001   | 0.0   | 0.0                   |       | 0.4%                 |       | 0.7%  |  |  |
| PCB-114             | 4.57              | 18.28  | 3.15   | --      |             |                 | 2.3                      |       | 0.0005   | 0.0   |                       |       | 0.1%                 |       |       |  |  |
| PCB-118             | 4.44              | 17.76  | 139    | --      |             |                 | 139.0                    | 139.0 | 0.0001   | 0.0   | 0.0                   |       | 0.8%                 |       | 1.3%  |  |  |
| PCB-123             | 10.8              | 43.2   |        | E       |             |                 | 5.4                      |       | 0.0001   | 0.0   |                       |       | 0.0%                 |       |       |  |  |
| PCB-126             | 0.51              | 2.04   | 3.41   | --      |             |                 | 3.4                      | 3.4   | 0.1      | 0.3   | 0.3                   |       | 20.2%                |       | 31.5% |  |  |
| PCB-156             | 0.554             | 2.216  | 29.7   | --      |             |                 | 29.7                     | 29.7  | 0.0005   | 0.0   | 0.0                   |       | 0.9%                 |       | 1.4%  |  |  |
| PCB-157             | 0.573             | 2.292  | 8.3    | --      |             |                 | 8.3                      | 8.3   | 0.0005   | 0.0   | 0.0                   |       | 0.2%                 |       | 0.4%  |  |  |
| PCB-167             | 0.563             | 2.252  | 17.6   | --      |             |                 | 17.6                     | 17.6  | 0.00001  | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |
| PCB-169             | 0.221             | 0.884  | 0.582  | --      |             |                 | 0.6                      | 0.3   | 0.01     | 0.0   | 0.0                   |       | 0.4%                 |       | 0.3%  |  |  |
| PCB-189             | 0.334             | 1.336  | 4.66   | --      |             |                 | 4.7                      | 4.7   | 0.0001   | 0.0   | 0.0                   |       | 0.0%                 |       | 0.0%  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.7   | 0.3       | 0.3   | 1.7          | 1.0   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 432               | Fine   | Field   | SE R-5 | SE              | Residential              |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.19              | 0.76   | 1.27    | NJ     |                 | 0.6                      |        | 0.1      | 0.1                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.587             | 2.348  |         | E      |                 | 0.3                      |        | 1        | 0.3                   |       | 1.0%                 |       |
| 1,2,3,7,8-PeCDF     | 1.09              | 4.36   |         | E      |                 | 0.5                      |        | 0.05     | 0.0                   |       | 0.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.843             | 3.372  | 9.34    | --     |                 | 9.3                      | 9.3    | 0.5      | 4.7                   | 4.7   | 15.5%                | 18.7% |
| 1,2,3,7,8-PeCDD     | 0.188             | 0.752  | 4.48    | --     |                 | 4.5                      | 4.5    | 1        | 4.5                   | 4.5   | 15.0%                | 18.1% |
| 1,2,3,4,7,8-HxCDF   | 1.89              | 7.56   | 6.2     | --     |                 | 6.2                      | 3.1    | 0.1      | 0.6                   | 0.3   | 2.1%                 | 1.2%  |
| 1,2,3,6,7,8-HxCDF   | 1.72              | 6.88   | 4.89    | --     |                 | 4.9                      | 2.4    | 0.1      | 0.5                   | 0.2   | 1.6%                 | 1.0%  |
| 2,3,4,6,7,8-HxCDF   | 2.97              | 11.88  | 66.2    | D      |                 | 33.1                     |        | 0.1      | 3.3                   |       | 11.1%                |       |
| 1,2,3,7,8,9-HxCDF   | 0.1728            | 0.6912 | 1.79    | --     |                 | 1.8                      | 1.8    | 0.1      | 0.2                   | 0.2   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 1.04              | 4.16   | 10.1    | --     |                 | 10.1                     | 10.1   | 0.1      | 1.0                   | 1.0   | 3.4%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.858             | 3.432  | 19.9    | --     |                 | 19.9                     | 19.9   | 0.1      | 2.0                   | 2.0   | 6.6%                 | 8.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.816             | 3.264  | 9.11    | J      |                 | 9.1                      | 4.6    | 0.1      | 0.9                   | 0.5   | 3.0%                 | 1.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.492             | 1.968  | 119     | --     |                 | 119.0                    | 119.0  | 0.01     | 1.2                   | 1.2   | 4.0%                 | 4.8%  |
| 1,2,3,4,7,8,9-HpCDF | 1.13              | 4.52   | 9.54    | --     |                 | 9.5                      | 9.5    | 0.01     | 0.1                   | 0.1   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.246             | 0.984  | 784     | --     |                 | 784.0                    | 784.0  | 0.01     | 7.8                   | 7.8   | 26.2%                | 31.6% |
| OCDF                | 0.846             | 3.384  | 591     | IJ     |                 | 591.0                    | 295.5  | 0.0001   | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| OCDD                | 0.743             | 2.972  | 7280    | CIJ    |                 | 7280.0                   | 3640.0 | 0.0001   | 0.7                   | 0.4   | 2.4%                 | 1.5%  |
| PCB-77              | 0.171             | 0.684  | 140     | --     |                 | 140.0                    | 140.0  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.234             | 0.936  | 5.16    | --     |                 | 5.2                      | 5.2    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4.16              | 16.64  | 360     | --     |                 | 360.0                    | 360.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 4.35              | 17.4   | 13.9    | --     |                 | 13.9                     | 7.0    | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 3.84              | 15.36  | 689     | --     |                 | 689.0                    | 689.0  | 0.0001   | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| PCB-123             | 4.36              | 17.44  |         | --     |                 | 2.2                      |        | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.362             | 1.448  | 16.6    | --     |                 | 16.6                     | 16.6   | 0.1      | 1.7                   | 1.7   | 5.5%                 | 6.7%  |
| PCB-156             | 3.24              | 12.96  | 265     | --     |                 | 265.0                    | 265.0  | 0.0005   | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| PCB-157             | 73.1              | 292.4  |         | E      | <5x*B           | 36.6                     |        | 0.0005   | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 3.3               | 13.2   | 154     | J      |                 | 154.0                    | 77.0   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.57              | 2.28   | 3.5     | --     |                 | 3.5                      | 3.5    | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 1.61              | 6.44   | 62.9    | --     |                 | 62.9                     | 62.9   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 28.0              | 22.9  | 1.9       | 1.9   | 29.9         | 24.8  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 164       | Fine              | Field  | SE R-6  | SE   | Residential     |                          |        |          |                       |       |                      |       |  |  |  |  |  |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|--|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |  |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |  |  |  |  |  |
| 2,3,7,8-TCDF        | 0.129             | 0.516  | 0.413   | NJ   |                 | 0.2                      |        | 0.1      | 0.0                   |       | 0.1%                 |       |  |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0327            | 0.1308 | 0.679   | --   |                 | 0.7                      | 0.7    | 1        | 0.7                   | 0.7   | 2.5%                 | 2.7%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.0802            | 0.3208 | 1.02    | --   |                 | 1.0                      | 1.0    | 0.05     | 0.1                   | 0.1   | 0.2%                 | 0.2%  |  |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.0737            | 0.2948 | 1.5     | --   |                 | 1.5                      | 1.5    | 0.5      | 0.8                   | 0.8   | 2.7%                 | 2.8%  |  |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.0542            | 0.2168 | 4.42    | --   |                 | 4.4                      | 4.4    | 1        | 4.4                   | 4.4   | 15.7%                | 16.7% |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.387             | 1.548  | 5.57    | --   |                 | 5.6                      | 5.6    | 0.1      | 0.6                   | 0.6   | 2.0%                 | 2.1%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 10.7              | 42.8   |         | D    |                 | 2.7                      |        | 0.1      | 0.3                   |       | 1.0%                 |       |  |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.429             | 1.716  | 5.65    | --   |                 | 5.7                      | 5.7    | 0.1      | 0.6                   | 0.6   | 2.0%                 | 2.2%  |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.479             | 1.916  | 0.887   | --   |                 | 0.9                      | 0.4    | 0.1      | 0.1                   | 0.0   | 0.3%                 | 0.2%  |  |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.0567            | 0.2268 | 10.7    | --   |                 | 10.7                     | 10.7   | 0.1      | 1.1                   | 1.1   | 3.8%                 | 4.1%  |  |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0501            | 0.2004 | 30.1    | --   |                 | 30.1                     | 30.1   | 0.1      | 3.0                   | 3.0   | 10.7%                | 11.4% |  |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0579            | 0.2316 | 18.2    | J    |                 | 18.2                     | 9.1    | 0.1      | 1.8                   | 0.9   | 6.5%                 | 3.5%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 94.9              | 379.6  |         | D    |                 | 23.7                     |        | 0.01     | 0.2                   |       | 0.8%                 |       |  |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.134             | 0.536  | 6.56    | --   |                 | 6.6                      | 6.6    | 0.01     | 0.1                   | 0.1   | 0.2%                 | 0.3%  |  |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0505            | 0.202  | 1290    | --   |                 | 1290.0                   | 1290.0 | 0.01     | 12.9                  | 12.9  | 45.9%                | 48.9% |  |  |  |  |  |
| OCDF                | 0.103             | 0.412  | 74.3    | --   |                 | 74.3                     | 74.3   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| OCDD                | 0.0757            | 0.3028 | 4200    | SJ   |                 | 4200.0                   | 2100.0 | 0.0001   | 0.4                   | 0.2   | 1.5%                 | 0.8%  |  |  |  |  |  |
| PCB-77              | 0.252             | 1.008  | 37.7    | B    | <5x*B           | 37.7                     | 18.9   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-81              | 0.242             | 0.968  | 1.52    | B    | <5x*B           | 1.5                      | 0.8    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-105             | 3.27              | 13.08  | 228     | I    |                 | 228.0                    | 228.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |  |  |  |  |  |
| PCB-114             | 3.2               | 12.8   | 8.74    | I    |                 | 8.7                      | 4.4    | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-118             | 2.8               | 11.2   | 527     | CIJ  |                 | 527.0                    | 263.5  | 0.0001   | 0.1                   | 0.0   | 0.2%                 | 0.1%  |  |  |  |  |  |
| PCB-123             | 3.06              | 12.24  | 13.8    | I    |                 | 13.8                     | 13.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-126             | 0.652             | 2.608  | 9.86    | --   |                 | 9.9                      | 9.9    | 0.1      | 1.0                   | 1.0   | 3.5%                 | 3.8%  |  |  |  |  |  |
| PCB-156             | 2.9               | 11.6   | 102     | --   |                 | 102.0                    | 102.0  | 0.0005   | 0.1                   | 0.1   | 0.2%                 | 0.2%  |  |  |  |  |  |
| PCB-157             | 3.02              | 12.08  | 27.2    | --   |                 | 27.2                     | 27.2   | 0.0005   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |  |  |  |  |  |
| PCB-167             | 2.66              | 10.64  | 48.5    | --   |                 | 48.5                     | 48.5   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |
| PCB-169             | 1.11              | 4.44   |         | E    |                 | 0.6                      |        | 0.01     | 0.0                   |       | 0.0%                 |       |  |  |  |  |  |
| PCB-189             | 2.1               | 8.4    | 17.9    | --   |                 | 17.9                     | 17.9   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |  |  |  |  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 27.1              | 25.4  | 1.2       | 1.1   | 28.3         | 26.5  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 985               | Fine   | Field | SE R-7  | SE    | Residential     |                          |         |          |       |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|--------|-------|---------|-------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |        |       | Results |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL     | Conc  | Flag    | Full  |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0668            | 0.2672 | 8.79  | NJ      |       | 4.4             |                          | 0.1     |          | 0.4   |                       |       |                      |       | 0.3% |       |      |       |
| 2,3,7,8-TCDD        | 0.0287            | 0.1148 | 1.15  | --      |       | 1.2             | 1.2                      | 1       |          | 1.2   | 1.2                   |       |                      | 0.8%  |      | 0.9%  |      |       |
| 1,2,3,7,8-PeCDF     | 0.159             | 0.636  | 30.2  | --      |       | 30.2            | 30.2                     | 0.05    |          | 1.5   | 1.5                   |       |                      | 1.0%  |      | 1.1%  |      |       |
| 2,3,4,7,8-PeCDF     | 0.147             | 0.588  | 64.1  | --      |       | 64.1            | 64.1                     | 0.5     |          | 32.1  | 32.1                  |       |                      | 20.5% |      | 23.0% |      |       |
| 1,2,3,7,8-PeCDD     | 0.0577            | 0.2308 | 22.1  | --      |       | 22.1            | 22.1                     | 1       |          | 22.1  | 22.1                  |       |                      | 14.2% |      | 15.9% |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.984             | 3.936  | 77    | --      |       | 77.0            | 77.0                     | 0.1     |          | 7.7   | 7.7                   |       |                      | 4.9%  |      | 5.5%  |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.842             | 3.368  | 48.1  | --      |       | 48.1            | 48.1                     | 0.1     |          | 4.8   | 4.8                   |       |                      | 3.1%  |      | 3.5%  |      |       |
| 2,3,4,6,7,8-HxCDF   | 1.05              | 4.2    | 86.5  | --      |       | 86.5            | 86.5                     | 0.1     |          | 8.7   | 8.7                   |       |                      | 5.5%  |      | 6.2%  |      |       |
| 1,2,3,7,8,9-HxCDF   | 1.18              | 4.72   | 30.4  | --      |       | 30.4            | 30.4                     | 0.1     |          | 3.0   | 3.0                   |       |                      | 1.9%  |      | 2.2%  |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.304             | 1.216  | 58.4  | --      |       | 58.4            | 58.4                     | 0.1     |          | 5.8   | 5.8                   |       |                      | 3.7%  |      | 4.2%  |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.274             | 1.096  | 180   | --      |       | 180.0           | 180.0                    | 0.1     |          | 18.0  | 18.0                  |       |                      | 11.5% |      | 12.9% |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.29              | 1.16   | 115   | --      |       | 115.0           | 115.0                    | 0.1     |          | 11.5  | 11.5                  |       |                      | 7.4%  |      | 8.3%  |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.936             | 3.744  | 448   | --      |       | 448.0           | 448.0                    | 0.01    |          | 4.5   | 4.5                   |       |                      | 2.9%  |      | 3.2%  |      |       |
| 1,2,3,4,7,8,9-HpCDF | 1.37              | 5.48   | 26.7  | --      |       | 26.7            | 26.7                     | 0.01    |          | 0.3   | 0.3                   |       |                      | 0.2%  |      | 0.2%  |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.101             | 0.404  | 3240  | CJ      |       | 3240.0          | 1620.0                   | 0.01    |          | 32.4  | 16.2                  |       |                      | 20.7% |      | 11.6% |      |       |
| OCDF                | 0.0973            | 0.3892 | 229   | J       |       | 229.0           | 114.5                    | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| OCDD                | 0.19              | 0.76   | 7720  | SJ      |       | 7720.0          | 3860.0                   | 0.0001  |          | 0.8   | 0.4                   |       |                      | 0.5%  |      | 0.3%  |      |       |
| PCB-77              | 0.0772            | 0.3088 | 68.2  | --      |       | 68.2            | 68.2                     | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-81              | 0.1               | 0.4    | 3.25  | B       | <5x*B | 3.3             | 1.6                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-105             | 3.42              | 13.68  | 382   | --      |       | 382.0           | 382.0                    | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-114             | 3.57              | 14.28  | 17.5  | --      |       | 17.5            | 17.5                     | 0.0005  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-118             | 3.6               | 14.4   | 821   | J       |       | 821.0           | 410.5                    | 0.0001  |          | 0.1   | 0.0                   |       |                      | 0.1%  |      | 0.0%  |      |       |
| PCB-123             | 4.09              | 16.36  | 19.3  | J       |       | 19.3            | 9.7                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-126             | 0.222             | 0.888  | 11.3  | --      |       | 11.3            | 11.3                     | 0.1     |          | 1.1   | 1.1                   |       |                      | 0.7%  |      | 0.8%  |      |       |
| PCB-156             | 0.707             | 2.828  | 155   | --      |       | 155.0           | 155.0                    | 0.0005  |          | 0.1   | 0.1                   |       |                      | 0.0%  |      | 0.1%  |      |       |
| PCB-157             | 0.731             | 2.924  | 36.6  | --      |       | 36.6            | 36.6                     | 0.0005  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-167             | 0.719             | 2.876  | 74    | --      |       | 74.0            | 74.0                     | 0.00001 |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |
| PCB-169             | 5.05              | 20.2   | E     | <5x*B   |       | 2.5             |                          | 0.01    |          | 0.0   |                       |       |                      | 0.0%  |      |       |      |       |
| PCB-189             | 0.915             | 3.66   | 18.5  | --      |       | 18.5            | 18.5                     | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  |      | 0.0%  |      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 154.8             | 137.8 | 1.3       | 1.2   | 156.1        | 139.0 |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 574       | Fine              | Field  | SE R-8  | SE   | Residential     |                          |        |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0384            | 0.1536 | 0.146   | NJ   |                 | 0.1                      |        | 0.1            | 0.0                   |       |                      |       | 0.1%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0215            | 0.086  |         | --   |                 | 0.0                      |        | 1              | 0.0                   |       |                      |       | 0.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0483            | 0.1932 | 0.349   | --   |                 | 0.3                      | 0.3    | 0.05           | 0.0                   | 0.0   |                      | 0.2%  | 0.2%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0433            | 0.1732 | 0.384   | --   |                 | 0.4                      | 0.4    | 0.5            | 0.2                   | 0.2   |                      | 3.0%  | 3.1%  |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0173            | 0.0692 | 1.09    | --   |                 | 1.1                      | 1.1    | 1              | 1.1                   | 1.1   |                      | 16.2% | 17.2% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0742            | 0.2968 | 2.6     | --   |                 | 2.6                      | 2.6    | 0.1            | 0.3                   | 0.3   |                      | 3.8%  | 4.1%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0657            | 0.2628 | 1.8     | --   |                 | 1.8                      | 1.8    | 0.1            | 0.2                   | 0.2   |                      | 2.7%  | 2.8%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 10.9              | 43.6   |         | D    | <5x*B           | 2.7                      |        | 0.1            | 0.3                   |       |                      | 4.0%  |       |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.107             | 0.428  | 0.552   | B    | <5x*B           | 0.6                      | 0.3    | 0.1            | 0.1                   | 0.0   |                      | 0.9%  | 0.5%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0622            | 0.2488 | 2.42    | --   |                 | 2.4                      | 2.4    | 0.1            | 0.2                   | 0.2   |                      | 3.5%  | 3.8%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0562            | 0.2248 | 6.1     | --   |                 | 6.1                      | 6.1    | 0.1            | 0.6                   | 0.6   |                      | 9.0%  | 9.5%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0594            | 0.2376 | 5.41    | --   |                 | 5.4                      | 5.4    | 0.1            | 0.5                   | 0.5   |                      | 8.0%  | 8.4%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0928            | 0.3712 | 144     | --   |                 | 144.0                    | 144.0  | 0.01           | 1.4                   | 1.4   |                      | 21.3% | 22.5% |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.179             | 0.716  | 6.67    | --   |                 | 6.7                      | 6.7    | 0.01           | 0.1                   | 0.1   |                      | 1.0%  | 1.0%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0808            | 0.3232 | 156     | --   |                 | 156.0                    | 156.0  | 0.01           | 1.6                   | 1.6   |                      | 23.0% | 24.4% |       |      |       |      |
| OCDF                | 0.0737            | 0.2948 | 515     | J    |                 | 515.0                    | 257.5  | 0.0001         | 0.1                   | 0.0   |                      | 0.8%  | 0.4%  |       |      |       |      |
| OCDD                | 0.0804            | 0.3216 | 1180    | --   |                 | 1180.0                   | 1180.0 | 0.0001         | 0.1                   | 0.1   |                      | 1.7%  | 1.8%  |       |      |       |      |
| PCB-77              | 0.026             | 0.104  | 3.72    | B    | <5x*B           | 3.7                      | 1.9    | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-81              | 0.0301            | 0.1204 | 0.55    | B    | <5x*B           | 0.6                      | 0.3    | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-105             | 0.291             | 1.164  | 15.2    | B    | <5x*B           | 15.2                     | 7.6    | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-114             | 0.304             | 1.216  | 1.24    | B    | <5x*B           | 1.2                      | 0.6    | 0.0005         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-118             | 0.324             | 1.296  | 35.5    | B    | <5x*B           | 35.5                     | 17.8   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  | 0.0%  |       |      |       |      |
| PCB-123             | 0.369             | 1.476  | 0.832   | --   |                 | 0.8                      | 0.4    | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-126             | 0.888             | 3.552  |         | E    |                 | 0.4                      |        | 0.1            | 0.0                   |       |                      | 0.6%  |       |       |      |       |      |
| PCB-156             | 0.169             | 0.676  | 5.18    | B    | <5x*B           | 5.2                      | 2.6    | 0.0005         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-157             | 0.175             | 0.7    | 1.33    | B    | <5x*B           | 1.3                      | 0.7    | 0.0005         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-167             | 0.172             | 0.688  | 3.15    | BJ   | <5x*B           | 3.2                      | 1.6    | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |
| PCB-169             | 0.498             | 1.992  |         | E    | <5x*B           | 0.2                      |        | 0.01           | 0.0                   |       |                      | 0.0%  |       |       |      |       |      |
| PCB-189             | 0.119             | 0.476  | 1.16    | B    | <5x*B           | 1.2                      | 0.6    | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 6.8               | 6.3   | 0.0       | 0.0   | 6.8          | 6.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 825               | Fine   | Field   | SE R-9 | SE              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0759            | 0.3036 | 0.263   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0337            | 0.1348 | 0.335   | --     |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 10.4%                | 12.8% |
| 1,2,3,7,8-PeCDF     | 0.0704            | 0.2816 | 0.405   | B      | <5x*B           | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.0667            | 0.2668 | 0.513   | --     |                 | 0.5                      | 0.5   | 0.5            | 0.3                   | 0.3   | 8.6%                 | 10.7% |
| 1,2,3,7,8-PeCDD     | 0.8               | 3.2    |         | E      |                 | 0.4                      |       | 1              | 0.4                   |       | 13.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0337            | 0.1348 | 0.864   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0303            | 0.1212 | 1.56    | --     |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 5.5%                 | 6.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.047             | 0.188  | 0.804   | B      | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0441            | 0.1764 | 0.515   | B      | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.7%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0367            | 0.1468 | 0.867   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0285            | 0.114  | 1.58    | --     |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 5.5%                 | 6.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.0352            | 0.1408 | 1.53    | J      |                 | 1.5                      | 0.8   | 0.1            | 0.2                   | 0.1   | 5.2%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0356            | 0.1424 | 13.1    | --     |                 | 13.1                     | 13.1  | 0.01           | 0.1                   | 0.1   | 4.5%                 | 5.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.078             | 0.312  | 0.761   | --     |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0572            | 0.2288 | 35.8    | --     |                 | 35.8                     | 35.8  | 0.01           | 0.4                   | 0.4   | 12.4%                | 15.3% |
| OCDF                | 0.0915            | 0.366  | 19      | --     |                 | 19.0                     | 19.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0912            | 0.3648 | 322     | --     |                 | 322.0                    | 322.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.4%  |
| PCB-77              | 0.0736            | 0.2944 | 19.1    | B      | <5x*B           | 19.1                     | 9.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0534            | 0.2136 | 1.14    | B      | <5x*B           | 1.1                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.61              | 6.44   | 192     | --     |                 | 192.0                    | 192.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-114             | 1.63              | 6.52   | 8.49    | --     |                 | 8.5                      | 8.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 1.33              | 5.32   | 367     | --     |                 | 367.0                    | 367.0 | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.6%  |
| PCB-123             | 1.55              | 6.2    | 8.52    | --     |                 | 8.5                      | 8.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.516             | 2.064  | 4.88    | --     |                 | 4.9                      | 4.9   | 0.1            | 0.5                   | 0.5   | 16.9%                | 21.0% |
| PCB-156             | 0.548             | 2.192  | 65.9    | --     |                 | 65.9                     | 65.9  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.4%  |
| PCB-157             | 0.571             | 2.284  | 16.5    | --     |                 | 16.5                     | 16.5  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.524             | 2.096  | 30      | J      |                 | 30.0                     | 15.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0477            | 0.1908 | 0.546   | BI     | <5x*B           | 0.5                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.211             | 0.844  | 5.62    | --     |                 | 5.6                      | 5.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.5               | 1.8   | 0.5       | 0.5   | 3.0          | 2.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 971               | Fine   | Field   | SW R-1 | SW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0521            | 0.2084 | 0.396   | NJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.28              | 1.12   |         | E      |                 | 0.1                      |       | 1              | 0.1                   |       | 3.2%                 |       |
| 1,2,3,7,8-PeCDF     | 0.349             | 1.396  |         | E      |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0273            | 0.1092 | 0.581   | --     |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 9.7%                 | 11.0% |
| 1,2,3,7,8-PeCDD     | 0.0421            | 0.1684 | 0.59    | --     |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 19.4%                | 22.0% |
| 1,2,3,4,7,8-HxCDF   | 0.14              | 0.56   | 0.696   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 2.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.124             | 0.496  | 0.656   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 2.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.169             | 0.676  | 0.649   | --     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.9%                 | 1.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.194             | 0.776  | 0.594   | B      | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 1.9%                 | 0.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0599            | 0.2396 | 0.974   | B      | <5x*B           | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0557            | 0.2228 | 1.74    | --     |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 5.5%                 | 6.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0597            | 0.2388 | 1.55    | J      |                 | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 5.2%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 11.6              | 46.4   |         | D      | <5x*B           | 2.9                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.839             | 3.356  |         | E      |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0989            | 0.3956 | 47.6    | --     |                 | 47.6                     | 47.6  | 0.01           | 0.5                   | 0.5   | 15.4%                | 17.5% |
| OCDF                | 0.1               | 0.4    | 15.3    | J      |                 | 15.3                     | 7.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.118             | 0.472  | 440     | --     |                 | 440.0                    | 440.0 | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.6%  |
| PCB-77              | 0.0432            | 0.1728 | 25.9    | --     |                 | 25.9                     | 25.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0451            | 0.1804 | 1.18    | B      | <5x*B           | 1.2                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.41              | 5.64   | 150     | --     |                 | 150.0                    | 150.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 1.48              | 5.92   | 6.43    | --     |                 | 6.4                      | 6.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.61              | 6.44   | 301     | --     |                 | 301.0                    | 301.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-123             | 1.83              | 7.32   | 7.26    | --     |                 | 7.3                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.285             | 1.14   | 7.09    | --     |                 | 7.1                      | 7.1   | 0.1            | 0.7                   | 0.7   | 22.9%                | 26.0% |
| PCB-156             | 2                 | 8      | 83.1    | --     |                 | 83.1                     | 83.1  | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 1.5%  |
| PCB-157             | 2.06              | 8.24   | 21.2    | --     |                 | 21.2                     | 21.2  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 2.03              | 8.12   | 42.3    | --     |                 | 42.3                     | 42.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0954            | 0.3816 | 0.969   | --     |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-189             | 0.293             | 1.172  | 13.4    | --     |                 | 13.4                     | 13.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.4               | 2.0   | 0.7       | 0.7   | 3.1          | 2.7   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 624       | Fine              | Field  | SW R-10 | SW   | Residential     |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0207            | 0.0828 | 0.361   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.00859           | 0.0344 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.448             | 1.792  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.4%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0294            | 0.1176 | 0.741   | --   |                 | 0.7                      | 0.7   | 0.5            | 0.4                   | 0.4   | 12.3%                | 13.3% |
| 1,2,3,7,8-PeCDD     | 0.0157            | 0.0628 | 0.652   | --   |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   | 24.7%                | 26.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0436            | 0.1744 | 0.66    | B    | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0375            | 0.15   | 0.525   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.8%                 | 1.9%  |
| 2,3,4,6,7,8-HxCDF   | 1.15              | 4.6    |         | D    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.429             | 1.716  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.93              | 3.72   |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 1.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0267            | 0.1068 | 1.18    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0272            | 0.1088 | 1.24    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 4.6%  |
| 1,2,3,4,6,7,8-HpCDF | 5.24              | 20.96  |         | D    |                 | 1.3                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0821            | 0.3284 | 0.721   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0386            | 0.1544 | 22.8    | --   |                 | 22.8                     | 22.8  | 0.01           | 0.2                   | 0.2   | 8.0%                 | 8.7%  |
| OCDF                | 0.0241            | 0.0964 | 7.84    | J    |                 | 7.8                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0323            | 0.1292 | 171     | --   |                 | 171.0                    | 171.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-77              | 0.037             | 0.148  | 33.2    | --   |                 | 33.2                     | 33.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0455            | 0.182  | 1.32    | B    | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.447             | 1.788  | 148     | --   |                 | 148.0                    | 148.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.467             | 1.868  | 7.16    | --   |                 | 7.2                      | 7.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.463             | 1.852  | 301     | J    |                 | 301.0                    | 150.5 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.6%  |
| PCB-123             | 0.526             | 2.104  | 7.97    | J    |                 | 8.0                      | 4.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0982            | 0.3928 | 9.28    | --   |                 | 9.3                      | 9.3   | 0.1            | 0.9                   | 0.9   | 32.8%                | 35.3% |
| PCB-156             | 0.165             | 0.66   | 55.4    | --   |                 | 55.4                     | 55.4  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-157             | 0.17              | 0.68   | 16      | --   |                 | 16.0                     | 16.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.167             | 0.668  | 32.7    | --   |                 | 32.7                     | 32.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0981            | 0.3924 | 1.38    | B    | <5x*B           | 1.4                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-189             | 0.0637            | 0.2548 | 8.43    | --   |                 | 8.4                      | 8.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.6   | 0.9       | 0.9   | 2.7          | 2.5   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID 530       | Fine              | Field  | SW R-11 | SW   | Residential     |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.135             | 0.54   | 1.18    | NJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       |                      |       | 0.4%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0491            | 0.1964 | 0.616   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 4.3%                 |       | 5.0%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0683            | 0.2732 | 1.09    | --   |                 | 1.1                      | 1.1   | 0.05           | 0.1                   | 0.1   | 0.4%                 |       | 0.5%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0387            | 0.1548 | 3.8     | --   |                 | 3.8                      | 3.8   | 0.5            | 1.9                   | 1.9   | 13.5%                |       | 15.8% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.078             | 0.312  | 2.94    | --   |                 | 2.9                      | 2.9   | 1              | 2.9                   | 2.9   | 20.6%                |       | 24.1% |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.155             | 0.62   | 2.84    | --   |                 | 2.8                      | 2.8   | 0.1            | 0.3                   | 0.3   | 2.0%                 |       | 2.3%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.133             | 0.532  | 2.01    | --   |                 | 2.0                      | 2.0   | 0.1            | 0.2                   | 0.2   | 1.4%                 |       | 1.7%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.176             | 0.704  | 4.55    | --   |                 | 4.6                      | 4.6   | 0.1            | 0.5                   | 0.5   | 3.3%                 |       | 3.8%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.18              | 0.72   | 0.998   | B    | <5x*B           | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 0.7%                 |       | 0.4%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.158             | 0.632  | 3.31    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 2.3%                 |       | 2.7%  |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.134             | 0.536  | 8.63    | --   |                 | 8.6                      | 8.6   | 0.1            | 0.9                   | 0.9   | 6.1%                 |       | 7.1%  |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.149             | 0.596  | 8.54    | J    |                 | 8.5                      | 4.3   | 0.1            | 0.9                   | 0.9   | 6.0%                 |       | 3.6%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 53.9              | 215.6  |         | D    | <5x*B           | 13.5                     |       | 0.01           | 0.1                   |       | 1.0%                 |       |       |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.672             | 2.688  | 2.43    | --   |                 | 2.4                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 |       | 0.1%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.268             | 1.072  | 233     | --   |                 | 233.0                    | 233.0 | 0.01           | 2.3                   | 2.3   | 16.5%                |       | 19.3% |       |      |       |      |
| OCDF                | 0.15              | 0.6    | 94.4    | J    |                 | 94.4                     | 47.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.0%  |       |      |       |      |
| OCDD                | 0.238             | 0.952  | 1840    | CJ   |                 | 1840.0                   | 920.0 | 0.0001         | 0.2                   | 0.1   | 1.3%                 |       | 0.8%  |       |      |       |      |
| PCB-77              | 0.146             | 0.584  | 86.9    | --   |                 | 86.9                     | 86.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| PCB-81              | 0.139             | 0.556  | 3.55    | BJ   | <5x*B           | 3.6                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-105             | 6.98              | 27.92  | 749     | CJ   |                 | 749.0                    | 374.5 | 0.0001         | 0.1                   | 0.0   | 0.5%                 |       | 0.3%  |       |      |       |      |
| PCB-114             | 7.29              | 29.16  | 30.9    | J    |                 | 30.9                     | 15.5  | 0.0005         | 0.0                   | 0.0   | 0.1%                 |       | 0.1%  |       |      |       |      |
| PCB-118             | 7.55              | 30.2   | 1600    | CJ   |                 | 1600.0                   | 800.0 | 0.0001         | 0.2                   | 0.1   | 1.1%                 |       | 0.7%  |       |      |       |      |
| PCB-123             | 8.58              | 34.32  | 38.4    | --   |                 | 38.4                     | 38.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-126             | 0.944             | 3.776  | 23      | J    |                 | 23.0                     | 11.5  | 0.1            | 2.3                   | 1.2   | 16.3%                |       | 9.5%  |       |      |       |      |
| PCB-156             | 1.26              | 5.04   | 368     | --   |                 | 368.0                    | 368.0 | 0.0005         | 0.2                   | 0.2   | 1.3%                 |       | 1.5%  |       |      |       |      |
| PCB-157             | 1.3               | 5.2    | 90.5    | --   |                 | 90.5                     | 90.5  | 0.0005         | 0.0                   | 0.0   | 0.3%                 |       | 0.4%  |       |      |       |      |
| PCB-167             | 1.28              | 5.12   | 159     | J    |                 | 159.0                    | 79.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |
| PCB-169             | 0.0734            | 0.2936 | 2.62    | I    |                 | 2.6                      | 2.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 |       | 0.2%  |       |      |       |      |
| PCB-189             | 0.642             | 2.568  | 37.7    | --   |                 | 37.7                     | 37.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 |       | 0.0%  |       |      |       |      |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 11.4              | 10.6  | 2.8       | 1.5   | 14.2         | 12.1  |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

|               |      |       |        |    |             |  |  |  |  |  |  |
|---------------|------|-------|--------|----|-------------|--|--|--|--|--|--|
| Sample ID 902 | Fine | Field | SW R-5 | SW | Residential | Not included in laboratory reports due to insufficient mass for fine analysis; added to database based on field notes; bulk sample used to represent location. |  |  |  |  |  |
|---------------|------|-------|--------|----|-------------|--|--|--|--|--|--|

| Analyte             | Analytical Limits |    | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|----|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 2,3,7,8-TCDD        |                   |    | --      |      |                 |                          |       | 1              |                       |       |                      |       |
| 1,2,3,7,8-PeCDF     |                   |    | --      |      |                 |                          |       | 0.05           |                       |       |                      |       |
| 2,3,4,7,8-PeCDF     |                   |    | --      |      |                 |                          |       | 0.5            |                       |       |                      |       |
| 1,2,3,7,8-PeCDD     |                   |    | --      |      |                 |                          |       | 1              |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDF   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDF   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 2,3,4,6,7,8-HxCDF   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDF   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDD   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDD   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDD   |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDF |                   |    | --      |      |                 |                          |       | 0.01           |                       |       |                      |       |
| 1,2,3,4,7,8,9-HpCDF |                   |    | --      |      |                 |                          |       | 0.01           |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDD |                   |    | --      |      |                 |                          |       | 0.01           |                       |       |                      |       |
| OCDF                |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| OCDD                |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-77              |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-81              |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-105             |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-114             |                   |    | --      |      |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-118             |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-123             |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-126             |                   |    | --      |      |                 |                          |       | 0.1            |                       |       |                      |       |
| PCB-156             |                   |    | --      |      |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-157             |                   |    | --      |      |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-167             |                   |    | --      |      |                 |                          |       | 0.00001        |                       |       |                      |       |
| PCB-169             |                   |    | --      |      |                 |                          |       | 0.01           |                       |       |                      |       |
| PCB-189             |                   |    | --      |      |                 |                          |       | 0.0001         |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |            | PCBs Only |       | All Analytes |       |
|-------------------|------------|-----------|-------|--------------|-------|
| Full              | Quant      | Full      | Quant | Full         | Quant |
| [Redacted]        | [Redacted] |           |       |              |       |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 902-B             | Bulk  | Bulk    | SW R-5 | SW              | Residential              | Insufficient mass for fine analysis (902); bulk sample used to represent location. |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|--|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |  | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.17              | 0.68  |         | J      |                 | 0.1                      |  | 0.1            | 0.0                   |       | 0.1%                 |       |
| 2,3,7,8-TCDD        | 0.962             | 3.848 |         | --     |                 | 0.5                      |  | 1              | 0.5                   |       | 7.4%                 |       |
| 1,2,3,7,8-PeCDF     | 1.76              | 7.04  |         | J      |                 | 0.9                      |  | 0.05           | 0.0                   |       | 0.7%                 |       |
| 2,3,4,7,8-PeCDF     | 1.39              | 5.56  |         | --     |                 | 0.7                      |  | 0.5            | 0.4                   |       | 5.2%                 |       |
| 1,2,3,7,8-PeCDD     | 4.06              | 16.24 |         | J      |                 | 2.0                      |  | 1              | 2.0                   |       | 29.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 3.49              | 13.96 |         | E      | <5x*B           | 1.7                      |  | 0.1            | 0.2                   |       | 2.5%                 |       |
| 1,2,3,6,7,8-HxCDF   | 2.86              | 11.44 |         | E      |                 | 1.4                      |  | 0.1            | 0.1                   |       | 2.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 5.63              | 22.52 |         | E      | <5x*B           | 2.8                      |  | 0.1            | 0.3                   |       | 4.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 5.76              | 23.04 |         | J      | <5x*B           | 2.9                      |  | 0.1            | 0.3                   |       | 4.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 4.13              | 16.52 |         | E      |                 | 2.1                      |  | 0.1            | 0.2                   |       | 3.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 3.44              | 13.76 |         | E      |                 | 1.7                      |  | 0.1            | 0.2                   |       | 2.5%                 |       |
| 1,2,3,7,8,9-HxCDD   | 5.27              | 21.08 |         | E      |                 | 2.6                      |  | 0.1            | 0.3                   |       | 3.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.4               | 9.6   | 22      | J      |                 | 22.0                     | 11.0   | 0.01           | 0.2                   | 0.1   | 3.2%                 | 9.5%  |
| 1,2,3,4,7,8,9-HpCDF | 1.68              | 6.72  | 4.98    | --     |                 | 5.0                      | 2.5  | 0.01           | 0.1                   | 0.0   | 0.7%                 | 2.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.845             | 3.38  | 85      | --     |                 | 85.0                     | 85.0   | 0.01           | 0.9                   | 0.9   | 12.5%                | 73.5% |
| OCDF                | 1.22              | 4.88  | 47.1    | J      |                 | 47.1                     | 23.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 1.6               | 6.4   | 695     | --     |                 | 695.0                    | 695.0  | 0.0001         | 0.1                   | 0.1   | 1.0%                 | 6.0%  |
| PCB-77              | 2.96              | 11.84 | 52.2    | --     |                 | 52.2                     | 52.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.5%  |
| PCB-81              | 3.78              | 15.1  |         | --     | <5x*B           | 1.9                      |  | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.36              | 5.44  | 182     | J      |                 | 182.0                    | 91.0   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.8%  |
| PCB-114             | 1.42              | 5.68  | 6.36    | J      |                 | 6.4                      | 3.2  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-118             | 1.6               | 6.4   | 374     | J      |                 | 374.0                    | 187.0  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 1.6%  |
| PCB-123             | 1.82              | 7.28  | 8.04    | J      |                 | 8.0                      | 4.0  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 19.2              | 38.32 |         | E      |                 | 9.6                      |  | 0.1            | 1.0                   |       | 14.2%                |       |
| PCB-156             | 1.08              | 4.32  | 97.4    | J      |                 | 97.4                     | 48.7   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 2.1%  |
| PCB-157             | 1.12              | 4.48  | 24      | J      |                 | 24.0                     | 12.0   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-167             | 1.1               | 4.4   | 55.5    | J      |                 | 55.5                     | 27.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.87              | 7.48  | 6.66    | --     |                 | 6.7                      | 3.3  | 0.01           | 0.1                   | 0.0   | 1.0%                 | 2.9%  |
| PCB-189             | 0.224             | 0.896 | 14.7    | J      |                 | 14.7                     | 7.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.8               | 1.1   | 1.1       | 0.0   | 6.9          | 1.1   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 629               | Fine   | Field   | SW R-6 | SW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0846            | 0.3384 |         | --     |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0193            | 0.0772 |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.106             | 0.424  |         | --     |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0733            | 0.2932 |         | --     |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.124             | 0.496  | 0.279   | --     |                 | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 48.8%                | 27.7% |
| 1,2,3,4,7,8-HxCDF   | 0.237             | 0.948  |         | EI     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0873            | 0.3492 |         | I      | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.269             | 1.076  |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.372             | 1.488  |         | E      | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0629            | 0.2516 | 0.317   | --     |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.9%                 | 8.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0501            | 0.2004 | 0.419   | I      |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 6.5%                 | 11.1% |
| 1,2,3,7,8,9-HxCDD   | 0.0572            | 0.2288 |         | I      |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.11              | 0.44   | 1.52    | --     |                 | 1.5                      | 1.5   | 0.01           | 0.0                   | 0.0   | 2.4%                 | 4.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.21              | 0.84   |         | --     |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.133             | 0.532  | 6.56    | --     |                 | 6.6                      | 6.6   | 0.01           | 0.1                   | 0.1   | 10.7%                | 18.3% |
| OCDF                | 3.64              | 14.56  |         | E      | <5x*B           | 1.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.365             | 1.46   | 40.6    | --     |                 | 40.6                     | 40.6  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-77              | 0.0624            | 0.2496 | 3.87    | B      | <5x*B           | 3.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0703            | 0.2812 | 0.466   | B      | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.3               | 1.2    | 19.4    | B      | <5x*B           | 19.4                     | 9.7   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.725             | 2.9    |         | E      | <5x*B           | 0.4                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.269             | 1.076  | 38.2    | B      | <5x*B           | 38.2                     | 19.1  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-123             | 0.302             | 1.208  | 2.23    | B      | <5x*B           | 2.2                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.147             | 0.588  | 1.02    | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 16.3%                | 27.7% |
| PCB-156             | 0.112             | 0.448  | 9.07    | B      | <5x*B           | 9.1                      | 4.5   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-157             | 0.118             | 0.472  | 2.53    | B      | <5x*B           | 2.5                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.109             | 0.436  | 2.99    | B      | <5x*B           | 3.0                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.24              | 0.96   |         | E      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.133             | 0.532  | 1.43    | --     |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.1       | 0.1   | 0.5          | 0.3   |

## APPENDIX A1. Results for Off-Post Field Samples (Study 1)

| Sample ID           | 583               | Fine   | Field   | SW R-9 | SW              | Residential              |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.175             | 0.7    |         | E      |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0245            | 0.098  |         | --     |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0366            | 0.1464 | 0.309   | --     |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.8%  |
| 2,3,4,7,8-PeCDF     | 0.0316            | 0.1264 | 0.357   | --     |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 10.0%                | 10.6% |
| 1,2,3,7,8-PeCDD     | 0.0254            | 0.1016 | 0.555   | --     |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 30.0%                | 31.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0916            | 0.3664 | 0.515   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.131             | 0.524  | 0.766   | B      | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 2.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.059             | 0.236  | 0.666   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0971            | 0.3884 | 0.54    | B      | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0303            | 0.1212 | 0.727   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0279            | 0.1116 | 1.63    | I      |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 8.0%                 | 8.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0315            | 0.126  | 0.681   | JI     |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 1.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.048             | 0.192  | 5.67    | --     |                 | 5.7                      | 5.7   | 0.01           | 0.1                   | 0.1   | 2.9%                 | 3.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.128             | 0.512  | 0.524   | --     |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.112             | 0.448  | 38      | --     |                 | 38.0                     | 38.0  | 0.01           | 0.4                   | 0.4   | 19.0%                | 20.2% |
| OCDF                | 0.0757            | 0.3028 | 11.8    | B      | <5x*B           | 11.8                     | 5.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.122             | 0.488  | 312     | --     |                 | 312.0                    | 312.0 | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 1.7%  |
| PCB-77              | 0.0268            | 0.1072 | 5.8     | B      | <5x*B           | 5.8                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0303            | 0.1212 | 0.45    | B      | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.0434            | 0.1736 | 22.7    | B      | <5x*B           | 22.7                     | 11.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 0.0428            | 0.1712 | 1.11    | --     |                 | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.0359            | 0.1436 | 47.4    | B      | <5x*B           | 47.4                     | 23.7  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-123             | 0.0407            | 0.1628 | 1.41    | --     |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0997            | 0.3988 | 1.29    | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 6.5%                 | 6.9%  |
| PCB-156             | 0.0309            | 0.1236 | 9.37    | B      | <5x*B           | 9.4                      | 4.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-157             | 0.0311            | 0.1244 | 2.38    | B      | <5x*B           | 2.4                      | 1.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-167             | 0.0295            | 0.118  | 5.54    | BJ     | <5x*B           | 5.5                      | 2.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0295            | 0.118  | 0.359   | BI     | <5x*B           | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 1.99              | 7.96   |         | E      |                 | 1.0                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.1               | 1.8   | 0.1       | 0.1   | 2.2          | 1.9   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 463               | Fine   | Field   | S1   |                 |                          |        |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.821             | 3.284  | 2.07    | NJ   |                 | 1.0                      |        | 0.1      | 0.1                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.0871            | 0.3484 |         | --   |                 | 0.0                      |        | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0544            | 0.2176 | 23.1    | --   |                 | 23.1                     | 23.1   | 0.05     | 1.2                   | 1.2   | 4.4%                 | 4.6%  |
| 2,3,4,7,8-PeCDF     | 0.0404            | 0.1616 | 3.12    | --   |                 | 3.1                      | 3.1    | 0.5      | 1.6                   | 1.6   | 5.9%                 | 6.2%  |
| 1,2,3,7,8-PeCDD     | 0.0431            | 0.1724 | 0.673   | --   |                 | 0.7                      | 0.7    | 1        | 0.7                   | 0.7   | 2.7%                 | 2.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.232             | 0.928  | 71.8    | --   |                 | 71.8                     | 71.8   | 0.1      | 7.2                   | 7.2   | 27.5%                | 28.6% |
| 1,2,3,6,7,8-HxCDF   | 0.206             | 0.824  | 27      | --   |                 | 27.0                     | 27.0   | 0.1      | 2.7                   | 2.7   | 10.3%                | 10.8% |
| 2,3,4,6,7,8-HxCDF   | 0.298             | 1.192  | 12.4    | --   |                 | 12.4                     | 12.4   | 0.1      | 1.2                   | 1.2   | 4.8%                 | 4.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.502             | 2.008  | 22.1    | --   |                 | 22.1                     | 22.1   | 0.1      | 2.2                   | 2.2   | 8.5%                 | 8.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.748             | 2.992  |         | E    | <5x*B           | 0.4                      |        | 0.1      | 0.0                   |       | 0.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0325            | 0.13   | 1.02    | --   |                 | 1.0                      | 1.0    | 0.1      | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| 1,2,3,7,8,9-HxCDD   | 1.04              | 4.16   |         | E    |                 | 0.5                      |        | 0.1      | 0.1                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.234             | 0.936  | 458     | --   |                 | 458.0                    | 458.0  | 0.01     | 4.6                   | 4.6   | 17.6%                | 18.3% |
| 1,2,3,4,7,8,9-HpCDF | 0.529             | 2.116  | 251     | --   |                 | 251.0                    | 251.0  | 0.01     | 2.5                   | 2.5   | 9.6%                 | 10.0% |
| 1,2,3,4,6,7,8-HpCDD | 0.195             | 0.78   | 17.4    | --   |                 | 17.4                     | 17.4   | 0.01     | 0.2                   | 0.2   | 0.7%                 | 0.7%  |
| OCDF                | 0.0855            | 0.342  | 9630    | CJ   |                 | 9630.0                   | 4815.0 | 0.0001   | 1.0                   | 0.5   | 3.7%                 | 1.9%  |
| OCDD                | 0.151             | 0.604  | 134     | --   |                 | 134.0                    | 134.0  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.12              | 0.48   | 22.7    | --   |                 | 22.7                     | 22.7   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.11              | 0.44   | 1.2     | B    | <5x*B           | 1.2                      | 0.6    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.35              | 5.4    | 491     | CJ   |                 | 491.0                    | 245.5  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 1.34              | 5.36   | 31.2    | --   |                 | 31.2                     | 31.2   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.12              | 4.48   | 1130    | CJ   |                 | 1130.0                   | 565.0  | 0.0001   | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| PCB-123             | 1.26              | 5.04   |         | --   |                 | 0.6                      |        | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.94              | 7.76   | 5.3     | --   |                 | 5.3                      | 2.7    | 0.1      | 0.5                   | 0.3   | 2.0%                 | 1.1%  |
| PCB-156             | 0.636             | 2.544  | 163     | --   |                 | 163.0                    | 163.0  | 0.0005   | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| PCB-157             | 0.671             | 2.684  | 39.6    | --   |                 | 39.6                     | 39.6   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.618             | 2.472  | 64.1    | --   |                 | 64.1                     | 64.1   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.102             | 0.408  | 0.921   | --   |                 | 0.9                      | 0.9    | 0.01     | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-189             | 0.937             | 3.748  | 14      | --   |                 | 14.0                     | 14.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 25.4              | 24.7  | 0.7       | 0.5   | 26.1         | 25.2  |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 318               | Fine   | Field   | S11  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0589            | 0.2356 | 0.375   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.0316            | 0.1264 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0928            | 0.3712 | 1.01    | --   |                 | 1.0                      | 1.0   | 0.05           | 0.1                   | 0.1   | 3.1%                 | 3.5%  |
| 2,3,4,7,8-PeCDF     | 0.0685            | 0.274  | 0.413   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 12.6%                | 13.9% |
| 1,2,3,7,8-PeCDD     | 0.0456            | 0.1824 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0515            | 0.206  | 1.42    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 8.8%                 | 9.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.0472            | 0.1888 | 0.919   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 3.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.0544            | 0.2176 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0651            | 0.2604 | 0.615   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 3.8%                 | 4.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.518             | 2.072  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.689             | 2.756  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0267            | 0.1068 | 0.703   | J    |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.4%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0414            | 0.1656 | 5.79    | --   |                 | 5.8                      | 5.8   | 0.01           | 0.1                   | 0.1   | 3.6%                 | 4.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0652            | 0.2608 | 1.68    | --   |                 | 1.7                      | 1.7   | 0.01           | 0.0                   | 0.0   | 1.1%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0536            | 0.2144 | 17.7    | --   |                 | 17.7                     | 17.7  | 0.01           | 0.2                   | 0.2   | 11.1%                | 12.3% |
| OCDF                | 0.0447            | 0.1788 | 24      | --   |                 | 24.0                     | 24.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0355            | 0.142  | 143     | --   |                 | 143.0                    | 143.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.0%  |
| PCB-77              | 0.0862            | 0.3448 | 16.8    | --   |                 | 16.8                     | 16.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0973            | 0.3892 | 0.996   | B    | <5x*B           | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.27              | 9.08   | 65.1    | --   |                 | 65.1                     | 65.1  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-114             | 2.37              | 9.48   |         | --   | <5x*B           | 1.2                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 2.51              | 10.04  | 134     | --   |                 | 134.0                    | 134.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| PCB-123             | 2.85              | 11.4   | 4.15    | --   |                 | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.053             | 0.212  | 5.75    | --   |                 | 5.8                      | 5.8   | 0.1            | 0.6                   | 0.6   | 36.5%                | 40.3% |
| PCB-156             | 0.324             | 1.296  | 29      | --   |                 | 29.0                     | 29.0  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.0%  |
| PCB-157             | 0.335             | 1.34   | 8.13    | --   |                 | 8.1                      | 8.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.33              | 1.32   | 15.8    | --   |                 | 15.8                     | 15.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0678            | 0.2712 | 0.984   | --   |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-189             | 0.223             | 0.892  | 4.43    | --   |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.9   | 0.6       | 0.6   | 1.6          | 1.5   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 567               | Fine   | Field   | S12  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.034             | 0.136  | 0.24    | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.0281            | 0.1124 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0835            | 0.334  | 0.59    | --   |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 2.8%                 | 4.3%  |
| 2,3,4,7,8-PeCDF     | 0.242             | 0.968  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.328             | 1.312  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 18.7%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0628            | 0.2512 | 0.881   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 8.4%                 | 12.9% |
| 1,2,3,6,7,8-HxCDF   | 0.0559            | 0.2236 | 0.58    | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 5.6%                 | 4.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0609            | 0.2436 | 0.551   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.6%                 | 8.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.472             | 1.888  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.328             | 1.312  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.343             | 1.372  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00726           | 0.0290 | 0.348   | J    |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.8%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0197            | 0.0788 | 3.48    | --   |                 | 3.5                      | 3.5   | 0.01           | 0.0                   | 0.0   | 3.3%                 | 5.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0266            | 0.1064 | 1.04    | --   |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 0.9%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0215            | 0.086  | 8.33    | --   |                 | 8.3                      | 8.3   | 0.01           | 0.1                   | 0.1   | 7.8%                 | 11.9% |
| OCDF                | 0.0113            | 0.0452 | 17      | --   |                 | 17.0                     | 17.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0239            | 0.0956 | 70.1    | --   |                 | 70.1                     | 70.1  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-77              | 0.0422            | 0.1688 | 13.7    | --   |                 | 13.7                     | 13.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.0521            | 0.2084 | 0.764   | B    | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.734             | 2.936  | 49.1    | B    | <5x*B           | 49.1                     | 24.6  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.767             | 3.068  | 2.27    | B    | <5x*B           | 2.3                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.78              | 3.12   | 96.3    | B    | <5x*B           | 96.3                     | 48.2  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-123             | 0.886             | 3.544  |         | --   | <5x*B           | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.0824            | 0.3296 | 3.14    | --   |                 | 3.1                      | 3.1   | 0.1            | 0.3                   | 0.3   | 29.0%                | 44.4% |
| PCB-156             | 0.329             | 1.316  | 20.4    | --   |                 | 20.4                     | 20.4  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| PCB-157             | 0.34              | 1.36   | 5       | B    | <5x*B           | 5.0                      | 2.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.335             | 1.34   | 11      | --   |                 | 11.0                     | 11.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.402             | 1.608  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.312             | 1.248  | 4.11    | --   |                 | 4.1                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.3   | 0.3       | 0.3   | 1.0          | 0.6   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 187               | Fine   | Field   | S19  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0312            | 0.1248 | 0.294   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0178            | 0.0712 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.623             | 2.492  |         | E    |                 | 0.3                      |       | 0.05           | 0.0                   |       | 0.7%                 |       |
| 2,3,4,7,8-PeCDF     | 0.044             | 0.176  | 0.493   | --   |                 | 0.5                      | 0.5   | 0.5            | 0.3                   | 0.3   | 12.2%                | 12.6% |
| 1,2,3,7,8-PeCDD     | 0.0219            | 0.0876 | 0.375   | --   |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 19.5%                | 20.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0534            | 0.2136 | 0.983   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 5.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0468            | 0.1872 | 0.67    | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.4%                 | 3.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.052             | 0.208  | 0.652   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.4%                 | 3.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0581            | 0.2324 | 0.5     | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.4%                 | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.368             | 1.472  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0145            | 0.058  | 0.533   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0157            | 0.0628 | 0.628   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0161            | 0.0644 | 4.61    | --   |                 | 4.6                      | 4.6   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 2.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0204            | 0.0816 | 1.05    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| 1,2,3,4,6,7,8-HpCDD | 0.049             | 0.196  | 13.2    | --   |                 | 13.2                     | 13.2  | 0.01           | 0.1                   | 0.1   | 6.4%                 | 6.6%  |
| OCDF                | 0.0161            | 0.0644 | 19      | --   |                 | 19.0                     | 19.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.00776           | 0.0310 | 97.6    | --   |                 | 97.6                     | 97.6  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-77              | 0.0698            | 0.2792 | 29.5    | --   |                 | 29.5                     | 29.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0725            | 0.29   | 1.13    | B    | <5x*B           | 1.1                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.06              | 12.24  | 183     | --   |                 | 183.0                    | 183.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.9%  |
| PCB-114             | 3.04              | 12.16  | 7.94    | --   |                 | 7.9                      | 4.0   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 2.62              | 10.48  | 354     | --   |                 | 354.0                    | 354.0 | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 1.8%  |
| PCB-123             | 2.95              | 11.8   | 8.28    | J    |                 | 8.3                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0986            | 0.3944 | 6.5     | --   |                 | 6.5                      | 6.5   | 0.1            | 0.7                   | 0.7   | 31.6%                | 32.7% |
| PCB-156             | 0.436             | 1.744  | 64.2    | --   |                 | 64.2                     | 64.2  | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 1.6%  |
| PCB-157             | 0.459             | 1.836  | 15.8    | --   |                 | 15.8                     | 15.8  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-167             | 0.423             | 1.692  | 28.2    | J    |                 | 28.2                     | 14.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0454            | 0.1816 | 0.774   | --   |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-189             | 0.0926            | 0.3704 | 9.31    | --   |                 | 9.3                      | 9.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 1.3   | 0.7       | 0.7   | 2.1          | 2.0   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID 429       | Fine              | Field  | S2      |      |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant | Human    | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.374             | 1.496  | 1.23    | NJ   |                 | 0.6                      |       | 0.1      | 0.1                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.0718            | 0.2872 | 1.38    | --   |                 | 1.4                      | 1.4   | 1        | 1.4                   | 1.4   | 16.8%                | 17.2% |
| 1,2,3,7,8-PeCDF     | 0.0246            | 0.0984 | 5.15    | --   |                 | 5.2                      | 5.2   | 0.05     | 0.3                   | 0.3   | 3.1%                 | 3.2%  |
| 2,3,4,7,8-PeCDF     | 0.02              | 0.08   | 1.53    | --   |                 | 1.5                      | 1.5   | 0.5      | 0.8                   | 0.8   | 9.0%                 | 9.2%  |
| 1,2,3,7,8-PeCDD     | 0.0105            | 0.042  | 0.799   | --   |                 | 0.8                      | 0.8   | 1        | 0.8                   | 0.8   | 9.6%                 | 9.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.0449            | 0.1796 | 9.3     | --   |                 | 9.3                      | 9.3   | 0.1      | 0.9                   | 0.9   | 11.1%                | 11.4% |
| 1,2,3,6,7,8-HxCDF   | 0.0386            | 0.1544 | 4.46    | --   |                 | 4.5                      | 4.5   | 0.1      | 0.5                   | 0.5   | 5.4%                 | 5.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.047             | 0.188  | 2.22    | --   |                 | 2.2                      | 2.2   | 0.1      | 0.2                   | 0.2   | 2.6%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0501            | 0.2004 | 2.14    | B    | <5x*B           | 2.1                      | 1.1   | 0.1      | 0.2                   | 0.1   | 2.5%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0348            | 0.1392 | 1.38    | --   |                 | 1.4                      | 1.4   | 0.1      | 0.1                   | 0.1   | 1.7%                 | 1.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0312            | 0.1248 | 3.04    | --   |                 | 3.0                      | 3.0   | 0.1      | 0.3                   | 0.3   | 3.6%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0341            | 0.1364 | 2.51    | --   |                 | 2.5                      | 2.5   | 0.1      | 0.3                   | 0.3   | 3.0%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0217            | 0.0868 | 38.8    | --   |                 | 38.8                     | 38.8  | 0.01     | 0.4                   | 0.4   | 4.6%                 | 4.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0282            | 0.1128 | 9.37    | --   |                 | 9.4                      | 9.4   | 0.01     | 0.1                   | 0.1   | 1.1%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0583            | 0.2332 | 84.2    | --   |                 | 84.2                     | 84.2  | 0.01     | 0.8                   | 0.8   | 10.1%                | 10.4% |
| OCDF                | 0.0222            | 0.0888 | 152     | --   |                 | 152.0                    | 152.0 | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0229            | 0.0916 | 785     | --   |                 | 785.0                    | 785.0 | 0.0001   | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-77              | 0.0878            | 0.3512 | 40.7    | --   |                 | 40.7                     | 40.7  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.082             | 0.328  | 1.64    | B    | <5x*B           | 1.6                      | 0.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.553             | 2.212  | 462     | --   |                 | 462.0                    | 462.0 | 0.0001   | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-114             | 0.55              | 2.2    | 23.7    | --   |                 | 23.7                     | 23.7  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.471             | 1.884  | 1010    | CJ   |                 | 1010.0                   | 505.0 | 0.0001   | 0.1                   | 0.1   | 1.2%                 | 0.6%  |
| PCB-123             | 0.529             | 2.116  | --      |      |                 | 0.3                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.03              | 4.12   | 8.85    | --   |                 | 8.9                      | 8.9   | 0.1      | 0.9                   | 0.9   | 10.7%                | 10.9% |
| PCB-156             | 0.44              | 1.76   | 143     | --   |                 | 143.0                    | 143.0 | 0.0005   | 0.1                   | 0.1   | 0.9%                 | 0.9%  |
| PCB-157             | 0.464             | 1.856  | 36.2    | --   |                 | 36.2                     | 36.2  | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.427             | 1.708  | 58.7    | --   |                 | 58.7                     | 58.7  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0483            | 0.1932 | 1.24    | --   |                 | 1.2                      | 1.2   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.298             | 1.192  | 13.8    | --   |                 | 13.8                     | 13.8  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.3               | 7.1   | 1.1       | 1.1   | 8.4          | 8.2   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 291               | Fine   | Field   | S20  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.08              | 0.32   | 0.131   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.0489            | 0.1956 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0355            | 0.142  | 0.21    | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.2%                 | 1.8%  |
| 2,3,4,7,8-PeCDF     | 0.189             | 0.756  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 5.8%                 |       |
| 1,2,3,7,8-PeCDD     | 0.383             | 1.532  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 23.2%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0437            | 0.1748 | 0.527   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.8%                 | 9.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0373            | 0.1492 | 0.434   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 7.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0411            | 0.1644 | 0.349   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0464            | 0.1856 | 0.422   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.176             | 0.704  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0341            | 0.1364 | 0.492   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.8%                 | 9.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.037             | 0.148  | 0.6     | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 7.0%                 | 10.9% |
| 1,2,3,4,6,7,8-HpCDF | 0.0265            | 0.106  | 3.79    | --   |                 | 3.8                      | 3.8   | 0.01           | 0.0                   | 0.0   | 4.4%                 | 6.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0374            | 0.1496 | 0.957   | --   |                 | 1.0                      | 1.0   | 0.01           | 0.0                   | 0.0   | 1.2%                 | 1.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0223            | 0.0892 | 5.42    | --   |                 | 5.4                      | 5.4   | 0.01           | 0.1                   | 0.1   | 6.3%                 | 9.8%  |
| OCDF                | 0.0127            | 0.0508 | 20.6    | --   |                 | 20.6                     | 20.6  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| OCDD                | 0.0254            | 0.1016 | 41      | --   |                 | 41.0                     | 41.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-77              | 0.296             | 1.184  | 6.95    | B    | <5x*B           | 7.0                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.337             | 1.348  | 1.05    | B    | <5x*B           | 1.1                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.991             | 3.964  | 36      | B    | <5x*B           | 36.0                     | 18.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 0.984             | 3.936  | 1.16    | --   |                 | 1.2                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.824             | 3.296  | 84.9    | B    | <5x*B           | 84.9                     | 42.5  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-123             | 0.927             | 3.708  | 2.43    | BJ   | <5x*B           | 2.4                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.154             | 0.616  | 1.79    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 20.9%                | 32.6% |
| PCB-156             | 0.137             | 0.548  | 11.9    | B    | <5x*B           | 11.9                     | 6.0   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 4.52              | 18.08  |         | E    | <5x*B           | 2.3                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.133             | 0.532  | 6.18    | BJ   | <5x*B           | 6.2                      | 3.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0798            | 0.3192 | 0.361   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-189             | 1.77              | 7.08   |         | E    |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.4   | 0.2       | 0.2   | 0.9          | 0.6   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 644               | Fine   | Field   | S22  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.04              | 0.16   | 0.202   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.00136           | 0.0054 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.249             | 0.996  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0126            | 0.0504 | 0.327   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 14.6%                | 18.7% |
| 1,2,3,7,8-PeCDD     | 0.276             | 1.104  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 9.8%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0258            | 0.1032 | 0.4     | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 2.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0216            | 0.0864 | 0.411   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 5.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0246            | 0.0984 | 0.306   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.391             | 1.564  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.011             | 0.044  | 0.283   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.768             | 3.072  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0109            | 0.0436 | 1.02    | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 9.8%                 | 12.5% |
| 1,2,3,4,6,7,8-HpCDF | 0.0482            | 0.1928 | 2.29    | --   |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 2.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.377             | 1.508  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0164            | 0.0656 | 8.12    | --   |                 | 8.1                      | 8.1   | 0.01           | 0.1                   | 0.1   | 7.9%                 | 10.1% |
| OCDF                | 0.0102            | 0.0408 | 6.28    | --   |                 | 6.3                      | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.00731           | 0.0292 | 61.2    | --   |                 | 61.2                     | 61.2  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-77              | 0.192             | 0.768  | 12.9    | B    | <5x*B           | 12.9                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.213             | 0.852  | 0.859   | B    | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.652             | 2.608  | 52.8    | B    | <5x*B           | 52.8                     | 26.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-114             | 0.648             | 2.592  | 2.41    | --   |                 | 2.4                      | 1.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.651             | 2.604  | 123     | B    | <5x*B           | 123.0                    | 61.5  | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 0.8%  |
| PCB-123             | 0.732             | 2.928  | 2.83    | BJ   | <5x*B           | 2.8                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.15              | 0.6    | 3.05    | --   |                 | 3.1                      | 3.1   | 0.1            | 0.3                   | 0.3   | 30.3%                | 38.7% |
| PCB-156             | 0.066             | 0.264  | 18.4    | B    | <5x*B           | 18.4                     | 9.2   | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-157             | 0.0696            | 0.2784 | 5.3     | B    | <5x*B           | 5.3                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.0641            | 0.2564 | 9.9     | J    |                 | 9.9                      | 5.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0449            | 0.1796 | 0.409   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.00751           | 0.0300 | 2.18    | --   |                 | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.4   | 0.3       | 0.3   | 0.8          | 0.7   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 521               | Fine   | Field   | S23  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0539            | 0.2156 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0178            | 0.0712 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.144             | 0.576  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.012             | 0.048  |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0254            | 0.1016 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0318            | 0.1272 | 0.138   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0286            | 0.1144 | 0.265   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.9%                 | 10.3% |
| 2,3,4,6,7,8-HxCDF   | 0.033             | 0.132  |         | --   | <5x*B           | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.04              | 0.16   | 0.378   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 9.2%                 | 6.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.2               | 0.8    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.986             | 3.944  |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 11.5%                |       |
| 1,2,3,7,8,9-HxCDD   | 0.0107            | 0.0428 | 1.44    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 32.3%                | 48.2% |
| 1,2,3,4,6,7,8-HpCDF | 0.0317            | 0.1268 | 0.746   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 1.6%                 | 2.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.149             | 0.596  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0174            | 0.0696 | 2.36    | --   |                 | 2.4                      | 2.4   | 0.01           | 0.0                   | 0.0   | 5.5%                 | 8.3%  |
| OCDF                | 0.0143            | 0.0572 | 2.11    | B    | <5x*B           | 2.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0234            | 0.0936 | 16      | --   |                 | 16.0                     | 16.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-77              | 0.188             | 0.752  | 4.54    | B    | <5x*B           | 4.5                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.228             | 0.912  | 0.641   | B    | <5x*B           | 0.6                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.333             | 1.332  | 23.8    | B    | <5x*B           | 23.8                     | 11.9  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.331             | 1.324  | 1.46    | --   |                 | 1.5                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-118             | 0.288             | 1.152  | 54.6    | B    | <5x*B           | 54.6                     | 27.3  | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 0.9%  |
| PCB-123             | 0.323             | 1.292  |         | --   | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.134             | 0.536  | 0.986   | B    | <5x*B           | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 23.1%                | 17.2% |
| PCB-156             | 0.218             | 0.872  | 6.06    | B    | <5x*B           | 6.1                      | 3.0   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 1.98              | 7.92   |         | E    | <5x*B           | 1.0                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.212             | 0.848  | 3.09    | BJ   | <5x*B           | 3.1                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.053             | 0.212  | 0.186   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-189             | 0.0488            | 0.1952 | 0.861   | --   |                 | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.1       | 0.1   | 0.3          | 0.2   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 385               | Fine   | Field   | S24  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0591            | 0.2364 | 0.289   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 2,3,7,8-TCDD        | 0.0243            | 0.0972 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0272            | 0.1088 | 0.516   | --   |                 | 0.5                      | 0.5   | 0.05           | 0.0                   | 0.0   | 4.9%                 | 7.1%  |
| 2,3,4,7,8-PeCDF     | 0.2               | 0.8    |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 9.8%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0214            | 0.0856 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0366            | 0.1464 | 0.379   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 7.9%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.3               | 1.2    |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0358            | 0.1432 | 0.313   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 5.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.325             | 1.3    |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 3.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.213             | 0.852  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0111            | 0.0444 | 0.259   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 8.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.012             | 0.048  | 0.329   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 8.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0166            | 0.0664 | 1.38    | --   |                 | 1.4                      | 1.4   | 0.01           | 0.0                   | 0.0   | 2.8%                 | 4.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0231            | 0.0924 | 0.371   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 1.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.016             | 0.064  | 4.12    | --   |                 | 4.1                      | 4.1   | 0.01           | 0.0                   | 0.0   | 8.1%                 | 11.6% |
| OCDF                | 0.0188            | 0.0752 | 4.67    | --   |                 | 4.7                      | 4.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0116            | 0.0464 | 28.1    | --   |                 | 28.1                     | 28.1  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-77              | 0.131             | 0.524  | 5.98    | B    | <5x*B           | 6.0                      | 3.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.147             | 0.588  | 0.704   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.956             | 3.824  | 53.7    | B    | <5x*B           | 53.7                     | 26.9  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.8%  |
| PCB-114             | 2.14              | 8.56   |         | E    |                 | 1.1                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 0.818             | 3.272  | 122     | B    | <5x*B           | 122.0                    | 61.0  | 0.0001         | 0.0                   | 0.0   | 2.4%                 | 1.7%  |
| PCB-123             | 0.92              | 3.68   |         | --   | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.11              | 0.44   | 1.46    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 29.5%                | 42.5% |
| PCB-156             | 0.212             | 0.848  | 16.8    | B    | <5x*B           | 16.8                     | 8.4   | 0.0005         | 0.0                   | 0.0   | 1.7%                 | 1.2%  |
| PCB-157             | 0.224             | 0.896  | 4.27    | B    | <5x*B           | 4.3                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-167             | 0.206             | 0.824  | 7.18    | BJ   | <5x*B           | 7.2                      | 3.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0544            | 0.2176 | 0.192   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-189             | 0.287             | 1.148  | 2.55    | --   |                 | 2.6                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.2       | 0.2   | 0.3          | 0.2   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 847               | Fine   | Field   | S25  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0169            | 0.0676 | 0.384   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 11.0%                |       |
| 2,3,7,8-TCDD        | 0.00563           | 0.0225 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.428             | 1.712  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 5.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.193             | 0.772  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 27.4%                |       |
| 1,2,3,7,8-PeCDD     | 0.00418           | 0.0167 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.167             | 0.668  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 5.5%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.175             | 0.7    |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 5.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0534            | 0.2136 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.323             | 1.292  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 11.0%                |       |
| 1,2,3,4,7,8-HxCDD   | 0.00325           | 0.013  |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00275           | 0.011  |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00306           | 0.0122 |         | J    |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0606            | 0.2424 | 0.417   | B    | <5x*B           | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 8.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.125             | 0.5    |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0375            | 0.15   | 1.37    | --   |                 | 1.4                      | 1.4   | 0.01           | 0.0                   | 0.0   | 7.7%                 | 62.0% |
| OCDF                | 0.0765            | 0.306  | 1.02    | --   |                 | 1.0                      | 1.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| OCDD                | 0.0656            | 0.2624 | 10.3    | --   |                 | 10.3                     | 10.3  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 4.6%  |
| PCB-77              | 0.0349            | 0.1396 | 3.67    | B    | <5x*B           | 3.7                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.8%  |
| PCB-81              | 0.0471            | 0.1884 | 0.561   | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.449             | 1.796  | 18.8    | B    | <5x*B           | 18.8                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 4.2%  |
| PCB-114             | 1.17              | 4.68   |         | E    | <5x*B           | 0.6                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-118             | 0.479             | 1.916  | 42.2    | B    | <5x*B           | 42.2                     | 21.1  | 0.0001         | 0.0                   | 0.0   | 2.3%                 | 9.3%  |
| PCB-123             | 0.545             | 2.18   |         | --   | <5x*B           | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.5               | 2      |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 16.5%                |       |
| PCB-156             | 0.189             | 0.756  | 6.7     | B    | <5x*B           | 6.7                      | 3.4   | 0.0005         | 0.0                   | 0.0   | 1.8%                 | 7.5%  |
| PCB-157             | 0.195             | 0.78   | 1.79    | B    | <5x*B           | 1.8                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 2.0%  |
| PCB-167             | 0.192             | 0.768  | 3.05    | B    | <5x*B           | 3.1                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-169             | 0.12              | 0.48   |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| PCB-189             | 0.174             | 0.696  | 0.478   | --   |                 | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.0       | 0.0   | 0.1          | 0.0   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 547               | Fine   | Field   | S26  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0152            | 0.0608 | 0.184   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.00255           | 0.0102 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0098            | 0.0392 | 1.17    | --   |                 | 1.2                      | 1.2   | 0.05           | 0.1                   | 0.1   | 5.7%                 | 7.6%  |
| 2,3,4,7,8-PeCDF     | 0.00738           | 0.0295 | 0.231   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 9.6%                 | 12.7% |
| 1,2,3,7,8-PeCDD     | 0.00196           | 0.0078 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0212            | 0.0848 | 1.62    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 15.3%                | 20.3% |
| 1,2,3,6,7,8-HxCDF   | 0.0182            | 0.0728 | 1.15    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 11.5%                | 15.3% |
| 2,3,4,6,7,8-HxCDF   | 0.0201            | 0.0804 | 0.493   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.8%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0224            | 0.0896 | 0.728   | B    | <5x*B           | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 6.7%                 | 5.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.225             | 0.9    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.331             | 1.324  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.274             | 1.096  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0244            | 0.0976 | 4.42    | --   |                 | 4.4                      | 4.4   | 0.01           | 0.0                   | 0.0   | 4.2%                 | 5.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0295            | 0.118  | 2.15    | --   |                 | 2.2                      | 2.2   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00354           | 0.0142 | 6.53    | --   |                 | 6.5                      | 6.5   | 0.01           | 0.1                   | 0.1   | 6.2%                 | 8.3%  |
| OCDF                | 0.00593           | 0.0237 | 21      | --   |                 | 21.0                     | 21.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.00107           | 0.0043 | 51.4    | --   |                 | 51.4                     | 51.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-77              | 0.0321            | 0.1284 | 9.12    | B    | <5x*B           | 9.1                      | 4.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0334            | 0.1336 | 0.6     | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.172             | 0.688  | 58      | B    | <5x*B           | 58.0                     | 29.0  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 0.171             | 0.684  | 3.03    | --   |                 | 3.0                      | 3.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.156             | 0.624  | 122     | B    | <5x*B           | 122.0                    | 61.0  | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 0.8%  |
| PCB-123             | 0.176             | 0.704  | 1.63    | B    | <5x*B           | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.116             | 0.464  | 2.62    | J    |                 | 2.6                      | 1.3   | 0.1            | 0.3                   | 0.1   | 24.9%                | 16.5% |
| PCB-156             | 0.159             | 0.636  | 21.9    | B    | <5x*B           | 21.9                     | 11.0  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 0.7%  |
| PCB-157             | 0.168             | 0.672  | 5.79    | B    | <5x*B           | 5.8                      | 2.9   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.155             | 0.62   | 9.08    | B    | <5x*B           | 9.1                      | 4.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.38              | 1.52   |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.0748            | 0.2992 | 2.51    | --   |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.8               | 0.6   | 0.3       | 0.1   | 1.1          | 0.7   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 768               | Fine   | Field   | S27  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0597            | 0.2388 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00158           | 0.0063 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00904           | 0.0362 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0068            | 0.0272 |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00284           | 0.0114 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0188            | 0.0752 | 0.141   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0166            | 0.0664 | 0.173   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 6.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.168             | 0.672  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0211            | 0.0844 | 0.286   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 3.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.00085           | 0.0034 | 0.184   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 6.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.00088           | 0.0035 | 0.281   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 10.3% |
| 1,2,3,7,8,9-HxCDD   | 0.0009            | 0.0036 | 0.275   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 7.0%                 | 10.3% |
| 1,2,3,4,6,7,8-HpCDF | 0.0203            | 0.0812 | 1.13    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 2.6%                 | 3.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.022             | 0.088  | 0.186   | --   |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00617           | 0.0247 | 4.59    | --   |                 | 4.6                      | 4.6   | 0.01           | 0.0                   | 0.0   | 10.7%                | 15.8% |
| OCDF                | 0.00997           | 0.0399 | 2.81    | --   |                 | 2.8                      | 2.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.00121           | 0.0048 | 33.9    | --   |                 | 33.9                     | 33.9  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| PCB-77              | 2.59              | 10.36  | 7.24    | B    | <5x*B           | 7.2                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 2.65              | 10.6   |         | --   | <5x*B           | 1.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.214             | 0.856  | 23.6    | B    | <5x*B           | 23.6                     | 11.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.213             | 0.852  | 1.22    | --   |                 | 1.2                      | 1.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.191             | 0.764  | 46.5    | B    | <5x*B           | 46.5                     | 23.3  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.8%  |
| PCB-123             | 0.215             | 0.86   |         | --   | <5x*B           | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.0782            | 0.3128 | 2.02    | J    |                 | 2.0                      | 1.0   | 0.1            | 0.2                   | 0.1   | 46.6%                | 34.4% |
| PCB-156             | 0.165             | 0.66   | 11.2    | B    | <5x*B           | 11.2                     | 5.6   | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 1.0%  |
| PCB-157             | 0.174             | 0.696  | 2.75    | B    | <5x*B           | 2.8                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.161             | 0.644  | 3.77    | B    | <5x*B           | 3.8                      | 1.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.293             | 1.172  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.072             | 0.288  | 1.3     | --   |                 | 1.3                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.2       | 0.1   | 0.2          | 0.1   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 264               | Fine   | Field   | S28  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0316            | 0.1264 | 0.442   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.00193           | 0.0077 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0101            | 0.0404 | 0.535   | --   |                 | 0.5                      | 0.5   | 0.05           | 0.0                   | 0.0   | 0.9%                 | 1.3%  |
| 2,3,4,7,8-PeCDF     | 0.00807           | 0.0323 | 0.799   | --   |                 | 0.8                      | 0.8   | 0.5            | 0.4                   | 0.4   | 14.6%                | 20.6% |
| 1,2,3,7,8-PeCDD     | 0.404             | 1.616  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 7.3%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0315            | 0.126  | 0.879   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.3%                 | 4.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.026             | 0.104  | 0.606   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 3.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0296            | 0.1184 | 0.881   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.3%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0322            | 0.1288 | 0.513   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.8%                 | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.00112           | 0.0045 | 0.618   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.00106           | 0.0042 | 0.92    | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.3%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.00112           | 0.0045 | 0.974   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 3.6%                 | 5.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0329            | 0.1316 | 6.34    | --   |                 | 6.3                      | 6.3   | 0.01           | 0.1                   | 0.1   | 2.3%                 | 3.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0424            | 0.1696 | 0.885   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0343            | 0.1372 | 23.3    | --   |                 | 23.3                     | 23.3  | 0.01           | 0.2                   | 0.2   | 8.5%                 | 12.0% |
| OCDF                | 0.0091            | 0.0364 | 15.6    | --   |                 | 15.6                     | 15.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.00688           | 0.0275 | 180     | --   |                 | 180.0                    | 180.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| PCB-77              | 0.0897            | 0.3588 | 59.1    | --   |                 | 59.1                     | 59.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-81              | 0.0956            | 0.3824 | 2.07    | B    | <5x*B           | 2.1                      | 1.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.497             | 1.988  | 178     | --   |                 | 178.0                    | 178.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-114             | 0.494             | 1.976  | 6.82    | --   |                 | 6.8                      | 6.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.412             | 1.648  | 316     | --   |                 | 316.0                    | 316.0 | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.6%  |
| PCB-123             | 0.463             | 1.852  |         | --   | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.06              | 0.24   | 11.2    | J    |                 | 11.2                     | 5.6   | 0.1            | 1.1                   | 0.6   | 40.8%                | 28.8% |
| PCB-156             | 0.402             | 1.608  | 64.8    | --   |                 | 64.8                     | 64.8  | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 1.7%  |
| PCB-157             | 0.424             | 1.696  | 16      | --   |                 | 16.0                     | 16.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.39              | 1.56   | 24.2    | --   |                 | 24.2                     | 24.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.00883           | 0.0353 | 1.17    | --   |                 | 1.2                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-189             | 0.331             | 1.324  | 8.26    | --   |                 | 8.3                      | 8.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.3   | 1.1       | 0.6   | 2.7          | 1.9   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 443               | Fine   | Field   | S29  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.154             | 0.616  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 2,3,7,8-TCDD        | 0.00467           | 0.0187 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.27              | 1.08   |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0327            | 0.1308 |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00807           | 0.0323 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0507            | 0.2028 | 0.466   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 11.8%                | 14.4% |
| 1,2,3,6,7,8-HxCDF   | 0.429             | 1.716  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 4.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.285             | 1.14   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0646            | 0.2584 | 0.499   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 11.8%                | 14.4% |
| 1,2,3,4,7,8-HxCDD   | 0.00933           | 0.0373 | 0.289   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 7.1%                 | 8.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.00698           | 0.0279 | 0.36    | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 9.5%                 | 11.6% |
| 1,2,3,7,8,9-HxCDD   | 0.271             | 1.084  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 1.88              | 7.52   |         | E    | <5x*B           | 0.9                      |       | 0.01           | 0.0                   |       | 2.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.591             | 2.364  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0515            | 0.206  | 4.27    | --   |                 | 4.3                      | 4.3   | 0.01           | 0.0                   | 0.0   | 10.2%                | 12.4% |
| OCDF                | 0.0373            | 0.1492 | 6.93    | --   |                 | 6.9                      | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0416            | 0.1664 | 29.8    | --   |                 | 29.8                     | 29.8  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| PCB-77              | 0.0547            | 0.2188 | 6.53    | B    | <5x*B           | 6.5                      | 3.3   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.0599            | 0.2396 | 0.713   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.465             | 1.86   | 31.6    | B    | <5x*B           | 31.6                     | 15.8  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-114             | 0.486             | 1.944  | 1.53    | B    | <5x*B           | 1.5                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 0.484             | 1.936  | 63.6    | B    | <5x*B           | 63.6                     | 31.8  | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 0.9%  |
| PCB-123             | 0.55              | 2.2    | 1.93    | B    | <5x*B           | 1.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0634            | 0.2536 | 1.16    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 28.4%                | 34.7% |
| PCB-156             | 0.323             | 1.292  | 9.14    | B    | <5x*B           | 9.1                      | 4.6   | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| PCB-157             | 0.334             | 1.336  | 2.67    | B    | <5x*B           | 2.7                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.328             | 1.312  | 5       | B    | <5x*B           | 5.0                      | 2.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0504            | 0.2016 | 0.239   | J    |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-189             | 0.16              | 0.64   | 1.19    | --   |                 | 1.2                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.2   | 0.1       | 0.1   | 0.3          | 0.3   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 641               | Fine   | Field   | S3    |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.094             | 0.376  | --      | --    |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00649           | 0.026  | --      | --    |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0224            | 0.0896 | 0.65    | --    |                 | 0.7                      | 0.7   | 0.05           | 0.0                   | 0.0   | 3.4%                 | 4.4%  |
| 2,3,4,7,8-PeCDF     | 0.0176            | 0.0704 | 0.355   | --    |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 19.7%                | 25.0% |
| 1,2,3,7,8-PeCDD     | 0.00863           | 0.0345 | --      | --    |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0822            | 0.3288 | 0.972   | --    |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 9.8%                 | 12.5% |
| 1,2,3,6,7,8-HxCDF   | 0.0763            | 0.3052 | 0.603   | I     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.9%                 | 7.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.14              | 0.56   | --      | <5x*B |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.233             | 0.932  | 0.502   | B     | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 4.9%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0319            | 0.1276 | 0.324   | --    |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.035             | 0.14   | 0.328   | --    |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 3.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.0349            | 0.1396 | --      | --    |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0489            | 0.1956 | 4.48    | --    |                 | 4.5                      | 4.5   | 0.01           | 0.0                   | 0.0   | 4.4%                 | 5.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0939            | 0.3756 | 1.76    | --    |                 | 1.8                      | 1.8   | 0.01           | 0.0                   | 0.0   | 1.8%                 | 2.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.119             | 0.476  | 8.09    | --    |                 | 8.1                      | 8.1   | 0.01           | 0.1                   | 0.1   | 8.0%                 | 10.1% |
| OCDF                | 0.0481            | 0.1924 | 26.4    | --    |                 | 26.4                     | 26.4  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| OCDD                | 0.0923            | 0.3692 | 63.4    | --    |                 | 63.4                     | 63.4  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-77              | 0.333             | 1.332  | 13.3    | B     | <5x*B           | 13.3                     | 6.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.353             | 1.412  | 0.983   | B     | <5x*B           | 1.0                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.497             | 1.988  | 59.3    | B     | <5x*B           | 59.3                     | 29.7  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 0.493             | 1.972  | 2.42    | --    |                 | 2.4                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.42              | 1.68   | 115     | B     | <5x*B           | 115.0                    | 57.5  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| PCB-123             | 0.473             | 1.892  | 4.82    | B     | <5x*B           | 4.8                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0819            | 0.3276 | 3.11    | J     |                 | 3.1                      | 1.6   | 0.1            | 0.3                   | 0.2   | 30.5%                | 20.0% |
| PCB-156             | 0.168             | 0.672  | 21.1    | B     | <5x*B           | 21.1                     | 10.6  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 0.7%  |
| PCB-157             | 0.177             | 0.708  | 5.48    | B     | <5x*B           | 5.5                      | 2.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.163             | 0.652  | 8.05    | B     | <5x*B           | 8.1                      | 4.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0289            | 0.1156 | 0.391   | --    |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-189             | 0.139             | 0.556  | 2.12    | --    |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.5   | 0.3       | 0.2   | 0.9          | 0.7   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 736               | Fine   | Field   | S30  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.175             | 0.7    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 0.00344           | 0.0138 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0552            | 0.2208 | 0.335   | --   |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 2.2%                 | 3.8%  |
| 2,3,4,7,8-PeCDF     | 0.0365            | 0.146  | 0.185   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 14.4%                | 25.4% |
| 1,2,3,7,8-PeCDD     | 0.364             | 1.456  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 28.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.436             | 1.744  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.9%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0231            | 0.0924 | 0.311   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.3%                 | 5.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.263             | 1.052  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0552            | 0.2208 | 0.495   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 7.2%                 | 12.7% |
| 1,2,3,4,7,8-HxCDD   | 0.0232            | 0.0928 | 0.171   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 5.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.322             | 1.288  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.215             | 0.86   |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0249            | 0.0996 | 1.85    | B    | <5x*B           | 1.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 2.7%                 | 2.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.543             | 2.172  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0242            | 0.0968 | 3.81    | --   |                 | 3.8                      | 3.8   | 0.01           | 0.0                   | 0.0   | 5.5%                 | 9.7%  |
| OCDF                | 0.0287            | 0.1148 | 6.58    | --   |                 | 6.6                      | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0317            | 0.1268 | 25.5    | --   |                 | 25.5                     | 25.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-77              | 0.0664            | 0.2656 | 6.17    | B    | <5x*B           | 6.2                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0692            | 0.2768 | 0.612   | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.647             | 2.588  | 21      | B    | <5x*B           | 21.0                     | 10.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.676             | 2.704  | 1.26    | B    | <5x*B           | 1.3                      | 0.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.79              | 3.16   | 51.4    | B    | <5x*B           | 51.4                     | 25.7  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-123             | 0.898             | 3.592  | 1.4     | B    | <5x*B           | 1.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.097             | 0.388  | 1.33    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 18.7%                | 33.1% |
| PCB-156             | 0.278             | 1.112  | 7.54    | B    | <5x*B           | 7.5                      | 3.8   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-157             | 0.288             | 1.152  | 2.31    | B    | <5x*B           | 2.3                      | 1.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.283             | 1.132  | 4.53    | B    | <5x*B           | 4.5                      | 2.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0244            | 0.0976 | 0.247   | J    |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.143             | 0.572  | 1.25    | --   |                 | 1.3                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.1       | 0.1   | 0.5          | 0.3   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 616               | Fine   | Field   | S31  |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0726            | 0.2904 | 0.502   | NJ   |                 | 0.3                      |       | 0.1      | 0.0                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.00242           | 0.0097 |         | --   |                 | 0.0                      |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.021             | 0.084  | 3.29    | --   |                 | 3.3                      | 3.3   | 0.05     | 0.2                   | 0.2   | 7.2%                 | 8.1%  |
| 2,3,4,7,8-PeCDF     | 0.492             | 1.968  |         | E    |                 | 0.2                      |       | 0.5      | 0.1                   |       | 4.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.217             | 0.868  |         | E    |                 | 0.1                      |       | 1        | 0.1                   |       | 4.3%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0439            | 0.1756 | 5.02    | --   |                 | 5.0                      | 5.0   | 0.1      | 0.5                   | 0.5   | 21.7%                | 24.6% |
| 1,2,3,6,7,8-HxCDF   | 0.0396            | 0.1584 | 2.91    | --   |                 | 2.9                      | 2.9   | 0.1      | 0.3                   | 0.3   | 12.6%                | 14.3% |
| 2,3,4,6,7,8-HxCDF   | 0.0486            | 0.1944 | 1.64    | --   |                 | 1.6                      | 1.6   | 0.1      | 0.2                   | 0.2   | 6.9%                 | 7.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0587            | 0.2348 | 1.51    | --   |                 | 1.5                      | 1.5   | 0.1      | 0.2                   | 0.2   | 6.5%                 | 7.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.411             | 1.644  |         | E    |                 | 0.2                      |       | 0.1      | 0.0                   |       | 0.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0137            | 0.0548 | 0.44    | --   |                 | 0.4                      | 0.4   | 0.1      | 0.0                   | 0.0   | 1.7%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0151            | 0.0604 | 0.387   | J    |                 | 0.4                      | 0.2   | 0.1      | 0.0                   | 0.0   | 1.7%                 | 1.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0336            | 0.1344 | 16.6    | --   |                 | 16.6                     | 16.6  | 0.01     | 0.2                   | 0.2   | 7.2%                 | 8.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0486            | 0.1944 | 6.15    | --   |                 | 6.2                      | 6.2   | 0.01     | 0.1                   | 0.1   | 2.7%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.02              | 0.08   | 7.73    | --   |                 | 7.7                      | 7.7   | 0.01     | 0.1                   | 0.1   | 3.3%                 | 3.8%  |
| OCDF                | 0.0138            | 0.0552 | 91.2    | --   |                 | 91.2                     | 91.2  | 0.0001   | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| OCDD                | 0.0229            | 0.0916 | 51.7    | --   |                 | 51.7                     | 51.7  | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-77              | 0.0175            | 0.07   | 14.2    | --   |                 | 14.2                     | 14.2  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0211            | 0.0844 | 0.851   | B    | <5x*B           | 0.9                      | 0.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.756             | 3.024  | 159     | --   |                 | 159.0                    | 159.0 | 0.0001   | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-114             | 0.79              | 3.16   | 7.54    | --   |                 | 7.5                      | 7.5   | 0.0005   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.809             | 3.236  | 352     | --   |                 | 352.0                    | 352.0 | 0.0001   | 0.0                   | 0.0   | 1.5%                 | 1.7%  |
| PCB-123             | 0.92              | 3.68   | 6.83    | --   |                 | 6.8                      | 6.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.122             | 0.488  | 3.02    | --   |                 | 3.0                      | 3.0   | 0.1      | 0.3                   | 0.3   | 13.0%                | 14.8% |
| PCB-156             | 0.315             | 1.26   | 43.9    | --   |                 | 43.9                     | 43.9  | 0.0005   | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-157             | 0.326             | 1.304  | 11.6    | --   |                 | 11.6                     | 11.6  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.32              | 1.28   | 19.1    | --   |                 | 19.1                     | 19.1  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0376            | 0.1504 | 0.435   | J    |                 | 0.4                      | 0.2   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.185             | 0.74   | 3.44    | --   |                 | 3.4                      | 3.4   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.8   | 0.3       | 0.3   | 2.3          | 2.1   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 945               | Fine   | Field   | S32  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.208             | 0.832  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.0045            | 0.018  |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0201            | 0.0804 | 0.474   | --   |                 | 0.5                      | 0.5   | 0.05           | 0.0                   | 0.0   | 2.4%                 | 3.2%  |
| 2,3,4,7,8-PeCDF     | 0.0125            | 0.05   | 0.21    | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 9.4%                 | 13.0% |
| 1,2,3,7,8-PeCDD     | 0.37              | 1.48   |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 18.9%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0191            | 0.0764 | 0.594   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 7.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.0184            | 0.0736 | 0.505   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.7%                 | 3.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.0193            | 0.0772 | 0.414   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.8%                 | 5.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0228            | 0.0912 | 0.566   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 7.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.366             | 1.464  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0132            | 0.0528 | 0.683   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 6.6%                 | 9.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.0148            | 0.0592 | 0.639   | J    |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 5.7%                 | 3.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0296            | 0.1184 | 2.95    | --   |                 | 3.0                      | 3.0   | 0.01           | 0.0                   | 0.0   | 2.8%                 | 3.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0413            | 0.1652 | 0.716   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0277            | 0.1108 | 6.98    | --   |                 | 7.0                      | 7.0   | 0.01           | 0.1                   | 0.1   | 6.6%                 | 9.1%  |
| OCDF                | 0.0223            | 0.0892 | 11.7    | --   |                 | 11.7                     | 11.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0261            | 0.1044 | 51      | --   |                 | 51.0                     | 51.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-77              | 0.0331            | 0.1324 | 11      | B    | <5x*B           | 11.0                     | 5.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0433            | 0.1732 | 0.902   | B    | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.82              | 3.28   | 60.7    | --   |                 | 60.7                     | 60.7  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-114             | 0.857             | 3.428  | 2.82    | B    | <5x*B           | 2.8                      | 0.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.898             | 3.592  | 121     | B    | <5x*B           | 121.0                    | 60.5  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.8%  |
| PCB-123             | 1.02              | 4.08   | 3.51    | B    | <5x*B           | 3.5                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.113             | 0.452  | 2.16    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 20.7%                | 28.5% |
| PCB-156             | 0.319             | 1.276  | 16.4    | --   |                 | 16.4                     | 16.4  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.1%  |
| PCB-157             | 0.329             | 1.316  | 4.27    | B    | <5x*B           | 4.3                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.324             | 1.296  | 8.04    | --   |                 | 8.0                      | 8.0   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.273             | 1.092  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.222             | 0.888  | 1.55    | --   |                 | 1.6                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.9               | 0.5   | 0.2       | 0.2   | 1.1          | 0.7   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 564               | Fine   | Field   | S33  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0717            | 0.2868 | 0.193   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.00328           | 0.0131 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00136           | 0.0054 | 0.274   | --   |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   | 0.9%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.00104           | 0.0042 | 0.376   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 12.6%                | 20.4% |
| 1,2,3,7,8-PeCDD     | 0.291             | 1.164  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 6.3%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0664            | 0.2656 | 0.385   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.307             | 1.228  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0594            | 0.2376 | 0.477   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0669            | 0.2676 | 0.405   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 2.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.303             | 1.212  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00641           | 0.0256 | 0.546   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 5.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.00665           | 0.0266 | 0.54    | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 5.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0262            | 0.1048 | 3.5     | --   |                 | 3.5                      | 3.5   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 3.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.412             | 1.648  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0264            | 0.1056 | 14.2    | --   |                 | 14.2                     | 14.2  | 0.01           | 0.1                   | 0.1   | 8.9%                 | 14.4% |
| OCDF                | 0.00693           | 0.0277 | 8.94    | --   |                 | 8.9                      | 8.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0134            | 0.0536 | 215     | --   |                 | 215.0                    | 215.0 | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 2.2%  |
| PCB-77              | 0.126             | 0.504  | 25.2    | --   |                 | 25.2                     | 25.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-81              | 0.139             | 0.556  | 1.31    | B    | <5x*B           | 1.3                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.376             | 1.504  | 98.8    | B    | <5x*B           | 98.8                     | 49.4  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-114             | 0.373             | 1.492  | 3.94    | --   |                 | 3.9                      | 3.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.328             | 1.312  | 178     | B    | <5x*B           | 178.0                    | 89.0  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.9%  |
| PCB-123             | 0.369             | 1.476  | 4.21    | B    | <5x*B           | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.129             | 0.516  | 7.28    | J    |                 | 7.3                      | 3.6   | 0.1            | 0.7                   | 0.4   | 45.9%                | 36.6% |
| PCB-156             | 0.265             | 1.06   | 35.2    | --   |                 | 35.2                     | 35.2  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.8%  |
| PCB-157             | 0.28              | 1.12   | 9.18    | --   |                 | 9.2                      | 9.2   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-167             | 0.258             | 1.032  | 15      | --   |                 | 15.0                     | 15.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0292            | 0.1168 | 0.747   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-189             | 0.157             | 0.628  | 4.47    | --   |                 | 4.5                      | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.5   | 0.7       | 0.4   | 1.4          | 0.9   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 693               | Fine   | Field   | S34  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.132             | 0.528  | 0.232   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.00204           | 0.0082 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.271             | 1.084  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00547           | 0.0219 | 0.308   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 9.3%                 | 9.8%  |
| 1,2,3,7,8-PeCDD     | 0.002             | 0.008  | 0.325   | --   |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 18.5%                | 19.6% |
| 1,2,3,4,7,8-HxCDF   | 0.56              | 2.24   |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0188            | 0.0752 | 0.328   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 2.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0217            | 0.0868 | 0.426   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0247            | 0.0988 | 0.347   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0231            | 0.0924 | 0.354   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 2.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.0223            | 0.0892 | 0.541   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0236            | 0.0944 | 0.449   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 2.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0419            | 0.1676 | 3.48    | --   |                 | 3.5                      | 3.5   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 2.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.511             | 2.044  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0214            | 0.0856 | 12.6    | --   |                 | 12.6                     | 12.6  | 0.01           | 0.1                   | 0.1   | 7.8%                 | 8.3%  |
| OCDF                | 0.0227            | 0.0908 | 8.72    | --   |                 | 8.7                      | 8.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.018             | 0.072  | 103     | --   |                 | 103.0                    | 103.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| PCB-77              | 6.18              | 24.72  | 20.9    | --   |                 | 20.9                     | 10.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 6.58              | 26.32  |         | --   | <5x*B           | 3.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 2.08              | 8.32   | 81.9    | B    | <5x*B           | 81.9                     | 41.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-114             | 2.07              | 8.28   | 3.81    | --   |                 | 3.8                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.74              | 6.96   | 169     | B    | <5x*B           | 169.0                    | 84.5  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.6%  |
| PCB-123             | 1.96              | 7.84   | 5.15    | BJ   | <5x*B           | 5.2                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.111             | 0.444  | 6.62    | --   |                 | 6.6                      | 6.6   | 0.1            | 0.7                   | 0.7   | 40.7%                | 43.2% |
| PCB-156             | 0.228             | 0.912  | 33.3    | --   |                 | 33.3                     | 33.3  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-157             | 0.24              | 0.96   | 9.53    | --   |                 | 9.5                      | 9.5   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.221             | 0.884  | 16.9    | J    |                 | 16.9                     | 8.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.034             | 0.136  | 0.783   | --   |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-189             | 0.0743            | 0.2972 | 4.35    | --   |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.7   | 0.7       | 0.7   | 1.4          | 1.4   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 389               | Fine   | Field   | S35  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.75              | 7      | 1.04    | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.0484            | 0.1936 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0259            | 0.1036 | 5.2     | --   |                 | 5.2                      | 5.2   | 0.05           | 0.3                   | 0.3   | 5.1%                 | 6.5%  |
| 2,3,4,7,8-PeCDF     | 0.0203            | 0.0812 | 1.17    | --   |                 | 1.2                      | 1.2   | 0.5            | 0.6                   | 0.6   | 11.9%                | 14.9% |
| 1,2,3,7,8-PeCDD     | 0.366             | 1.464  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 4.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0232            | 0.0928 | 8.21    | --   |                 | 8.2                      | 8.2   | 0.1            | 0.8                   | 0.8   | 16.2%                | 20.4% |
| 1,2,3,6,7,8-HxCDF   | 0.0208            | 0.0832 | 4.2     | --   |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 8.3%                 | 10.5% |
| 2,3,4,6,7,8-HxCDF   | 0.0246            | 0.0984 | 2.21    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 4.4%                 | 5.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0291            | 0.1164 | 2.16    | B    | <5x*B           | 2.2                      | 1.1   | 0.1            | 0.2                   | 0.1   | 4.4%                 | 2.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0313            | 0.1252 | 0.534   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.0%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0285            | 0.114  | 0.918   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 1.8%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.031             | 0.124  | 0.764   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 1.6%                 | 2.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0434            | 0.1736 | 23.7    | --   |                 | 23.7                     | 23.7  | 0.01           | 0.2                   | 0.2   | 4.7%                 | 5.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0631            | 0.2524 | 9.81    | --   |                 | 9.8                      | 9.8   | 0.01           | 0.1                   | 0.1   | 1.9%                 | 2.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0555            | 0.222  | 18.5    | --   |                 | 18.5                     | 18.5  | 0.01           | 0.2                   | 0.2   | 3.7%                 | 4.6%  |
| OCDF                | 0.022             | 0.088  | 142     | --   |                 | 142.0                    | 142.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| OCDD                | 0.0483            | 0.1932 | 142     | --   |                 | 142.0                    | 142.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-77              | 0.141             | 0.564  | 76.8    | --   |                 | 76.8                     | 76.8  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.142             | 0.568  | 2.92    | B    | <5x*B           | 2.9                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.91              | 7.64   | 406     | --   |                 | 406.0                    | 406.0 | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| PCB-114             | 1.9               | 7.6    | 21.1    | --   |                 | 21.1                     | 21.1  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-118             | 1.6               | 6.4    | 809     | CJ   |                 | 809.0                    | 404.5 | 0.0001         | 0.1                   | 0.0   | 1.6%                 | 1.0%  |
| PCB-123             | 1.79              | 7.16   |         | --   |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 6.69              | 26.76  | 12.7    | --   |                 | 12.7                     | 6.4   | 0.1            | 1.3                   | 0.6   | 25.1%                | 15.9% |
| PCB-156             | 0.823             | 3.292  | 134     | --   |                 | 134.0                    | 134.0 | 0.0005         | 0.1                   | 0.1   | 1.3%                 | 1.7%  |
| PCB-157             | 0.867             | 3.468  | 32.1    | --   |                 | 32.1                     | 32.1  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.799             | 3.196  | 60.5    | --   |                 | 60.5                     | 60.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0625            | 0.25   | 1.14    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 1.1               | 4.4    | 19      | --   |                 | 19.0                     | 19.0  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.5               | 3.1   | 1.5       | 0.7   | 5.0          | 3.8   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 991               | Fine   | Field   | S36  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.102             | 0.408  | 0.601   | NJ   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,7,8-TCDD        | 0.0458            | 0.1832 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0266            | 0.1064 | 2.46    | --   |                 | 2.5                      | 2.5   | 0.05           | 0.1                   | 0.1   | 6.4%                 | 7.3%  |
| 2,3,4,7,8-PeCDF     | 0.586             | 2.344  |         | E    |                 | 0.3                      |       | 0.5            | 0.2                   |       | 7.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0262            | 0.1048 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0313            | 0.1252 | 3.59    | --   |                 | 3.6                      | 3.6   | 0.1            | 0.4                   | 0.4   | 18.4%                | 21.1% |
| 1,2,3,6,7,8-HxCDF   | 0.0271            | 0.1084 | 1.91    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 9.7%                 | 11.2% |
| 2,3,4,6,7,8-HxCDF   | 0.0314            | 0.1256 | 0.992   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 5.1%                 | 5.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0376            | 0.1504 | 1.1     | B    | <5x*B           | 1.1                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.6%                 | 3.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0315            | 0.126  | 0.385   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0265            | 0.106  | 0.713   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.6%                 | 4.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.0297            | 0.1188 | 0.804   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 4.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.042             | 0.168  | 11.3    | --   |                 | 11.3                     | 11.3  | 0.01           | 0.1                   | 0.1   | 5.8%                 | 6.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0564            | 0.2256 | 3.99    | --   |                 | 4.0                      | 4.0   | 0.01           | 0.0                   | 0.0   | 2.0%                 | 2.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0281            | 0.1124 | 7.69    | --   |                 | 7.7                      | 7.7   | 0.01           | 0.1                   | 0.1   | 3.9%                 | 4.5%  |
| OCDF                | 0.0259            | 0.1036 | 78      | --   |                 | 78.0                     | 78.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| OCDD                | 0.0281            | 0.1124 | 78.7    | --   |                 | 78.7                     | 78.7  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 1.56              | 6.24   | 20.7    | --   |                 | 20.7                     | 20.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 1.89              | 7.56   | 3.39    | B    | <5x*B           | 3.4                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.44              | 5.76   | 91.9    | B    | <5x*B           | 91.9                     | 46.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-114             | 3.52              | 14.08  |         | E    |                 | 1.8                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 1.36              | 5.44   | 188     | B    | <5x*B           | 188.0                    | 94.0  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.6%  |
| PCB-123             | 1.52              | 6.08   | 7.71    | J    |                 | 7.7                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.171             | 0.684  | 3.95    | --   |                 | 4.0                      | 4.0   | 0.1            | 0.4                   | 0.4   | 20.5%                | 23.5% |
| PCB-156             | 0.482             | 1.928  | 26.3    | B    | <5x*B           | 26.3                     | 13.2  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-157             | 0.508             | 2.032  | 9.07    | --   |                 | 9.1                      | 9.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.469             | 1.876  | 12.7    | J    |                 | 12.7                     | 6.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0913            | 0.3652 | 0.489   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.156             | 0.624  | 3.61    | --   |                 | 3.6                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.3   | 0.4       | 0.4   | 1.9          | 1.7   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 102               | Fine   | Field   | S4   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0921            | 0.3684 |         | E    |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00249           | 0.01   |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00148           | 0.0059 | 0.18    | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.239             | 0.956  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.8%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0191            | 0.0764 | 0.22    | --   |                 | 0.2                      | 0.2   | 1              | 0.2                   | 0.2   | 19.4%                | 29.3% |
| 1,2,3,4,7,8-HxCDF   | 0.241             | 0.964  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.168             | 0.672  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0314            | 0.1256 | 0.426   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0377            | 0.1508 | 0.268   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.315             | 1.26   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.377             | 1.508  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00169           | 0.0068 | 0.233   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0225            | 0.09   | 2.37    | --   |                 | 2.4                      | 2.4   | 0.01           | 0.0                   | 0.0   | 2.3%                 | 3.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0251            | 0.1004 | 0.32    | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0392            | 0.1568 | 10      | --   |                 | 10.0                     | 10.0  | 0.01           | 0.1                   | 0.1   | 9.7%                 | 14.7% |
| OCDF                | 0.0209            | 0.0836 | 5.12    | --   |                 | 5.1                      | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0173            | 0.0692 | 80.4    | --   |                 | 80.4                     | 80.4  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| PCB-77              | 0.187             | 0.748  | 12.8    | B    | <5x*B           | 12.8                     | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.198             | 0.792  | 0.927   | B    | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.41              | 1.64   | 148     | --   |                 | 148.0                    | 148.0 | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 2.2%  |
| PCB-114             | 0.407             | 1.628  | 6.9     | --   |                 | 6.9                      | 6.9   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-118             | 0.368             | 1.472  | 356     | --   |                 | 356.0                    | 356.0 | 0.0001         | 0.0                   | 0.0   | 3.4%                 | 5.2%  |
| PCB-123             | 0.414             | 1.656  | 5.85    | B    | <5x*B           | 5.9                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-126             | 0.117             | 0.468  | 3.87    | J    |                 | 3.9                      | 1.9   | 0.1            | 0.4                   | 0.2   | 37.8%                | 27.9% |
| PCB-156             | 0.131             | 0.524  | 59      | --   |                 | 59.0                     | 59.0  | 0.0005         | 0.0                   | 0.0   | 2.9%                 | 4.3%  |
| PCB-157             | 0.138             | 0.552  | 12.9    | --   |                 | 12.9                     | 12.9  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-167             | 0.127             | 0.508  | 21.7    | --   |                 | 21.7                     | 21.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0417            | 0.1668 | 0.493   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-189             | 0.059             | 0.236  | 3.88    | --   |                 | 3.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.4       | 0.2   | 0.8          | 0.5   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 234               | Fine   | Field   | S5   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0294            | 0.1176 | 0.386   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.0205            | 0.082  | 0.934   | --   |                 | 0.9                      | 0.9   | 1              | 0.9                   | 0.9   | 46.1%                | 54.2% |
| 1,2,3,7,8-PeCDF     | 0.14              | 0.56   | 0.683   | --   |                 | 0.7                      | 0.7   | 0.05           | 0.0                   | 0.0   | 1.8%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.117             | 0.468  | 0.414   | --   |                 | 0.4                      | 0.2   | 0.5            | 0.2                   | 0.1   | 10.2%                | 6.0%  |
| 1,2,3,7,8-PeCDD     | 0.275             | 1.1    |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 5.1%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0727            | 0.2908 | 1       | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 5.1%                 | 6.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0624            | 0.2496 | 0.686   | B    | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.6%                 | 1.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.0763            | 0.3052 | 0.426   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.0894            | 0.3576 | 0.508   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.6%                 | 3.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.205             | 0.82   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0103            | 0.0412 | 0.401   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0122            | 0.0488 | 0.341   | J    |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.5%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0256            | 0.1024 | 3.62    | --   |                 | 3.6                      | 3.6   | 0.01           | 0.0                   | 0.0   | 1.8%                 | 2.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0382            | 0.1528 | 1.12    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0243            | 0.0972 | 8.44    | --   |                 | 8.4                      | 8.4   | 0.01           | 0.1                   | 0.1   | 4.3%                 | 5.1%  |
| OCDF                | 0.0257            | 0.1028 | 18      | --   |                 | 18.0                     | 18.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0261            | 0.1044 | 71.9    | --   |                 | 71.9                     | 71.9  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-77              | 0.0698            | 0.2792 | 6.18    | B    | <5x*B           | 6.2                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0983            | 0.3932 | 0.661   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.665             | 2.66   | 33      | B    | <5x*B           | 33.0                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 0.695             | 2.78   | 1.41    | B    | <5x*B           | 1.4                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.713             | 2.852  | 72.6    | B    | <5x*B           | 72.6                     | 36.3  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 0.811             | 3.244  | 2.76    | B    | <5x*B           | 2.8                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.135             | 0.54   | 1.89    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 9.7%                 | 11.4% |
| PCB-156             | 0.196             | 0.784  | 15.7    | B    | <5x*B           | 15.7                     | 7.9   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-157             | 0.202             | 0.808  | 4.58    | B    | <5x*B           | 4.6                      | 2.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.199             | 0.796  | 8.29    | --   |                 | 8.3                      | 8.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0662            | 0.2648 | 0.422   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.189             | 0.756  | 2.46    | --   |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.3   | 0.2       | 0.2   | 1.8          | 1.5   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 830               | Fine   | Field   | S6   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0358            | 0.1432 | 0.366   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.0253            | 0.1012 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0326            | 0.1304 | 1.87    | --   |                 | 1.9                      | 1.9   | 0.05           | 0.1                   | 0.1   | 5.1%                 | 6.4%  |
| 2,3,4,7,8-PeCDF     | 0.0225            | 0.09   | 0.403   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 10.7%                | 13.4% |
| 1,2,3,7,8-PeCDD     | 0.361             | 1.444  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 10.7%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0522            | 0.2088 | 3.19    | --   |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 17.0%                | 21.4% |
| 1,2,3,6,7,8-HxCDF   | 0.0446            | 0.1784 | 1.98    | B    | <5x*B           | 2.0                      | 1.0   | 0.1            | 0.2                   | 0.1   | 10.7%                | 6.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.0507            | 0.2028 | 0.864   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.8%                 | 6.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0618            | 0.2472 | 1.14    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 5.9%                 | 7.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.00298           | 0.0119 | 0.262   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 1.6%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.00218           | 0.0087 | 0.742   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 4.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0026            | 0.0104 | 1       | J    |                 | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.3%                 | 3.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0396            | 0.1584 | 9.32    | --   |                 | 9.3                      | 9.3   | 0.01           | 0.1                   | 0.1   | 5.0%                 | 6.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0432            | 0.1728 | 3.85    | --   |                 | 3.9                      | 3.9   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 2.6%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0227            | 0.0908 | 6.4     | --   |                 | 6.4                      | 6.4   | 0.01           | 0.1                   | 0.1   | 3.4%                 | 4.3%  |
| OCDF                | 0.031             | 0.124  | 56.1    | --   |                 | 56.1                     | 56.1  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| OCDD                | 0.0293            | 0.1172 | 47.2    | --   |                 | 47.2                     | 47.2  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-77              | 0.0723            | 0.2892 | 12.2    | B    | <5x*B           | 12.2                     | 6.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0905            | 0.362  | 0.869   | B    | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.184             | 0.736  | 47.2    | B    | <5x*B           | 47.2                     | 23.6  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.193             | 0.772  | 2.03    | B    | <5x*B           | 2.0                      | 1.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.201             | 0.804  | 72.3    | B    | <5x*B           | 72.3                     | 36.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 0.228             | 0.912  |         | --   | <5x*B           | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.158             | 0.632  | 2.11    | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 11.2%                | 14.1% |
| PCB-156             | 0.189             | 0.756  | 13.8    | B    | <5x*B           | 13.8                     | 6.9   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-157             | 0.196             | 0.784  | 4.3     | B    | <5x*B           | 4.3                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.192             | 0.768  | 7.34    | B    | <5x*B           | 7.3                      | 3.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.403             | 1.612  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.189             | 0.756  | 2.46    | --   |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.3   | 0.2       | 0.2   | 1.8          | 1.5   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 788               | Fine   | Field   | S7   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.223             | 0.892  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.0115            | 0.046  |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0375            | 0.15   | 0.553   | --   |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 2.2%                 | 2.3%  |
| 2,3,4,7,8-PeCDF     | 0.029             | 0.116  | 0.298   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 10.9%                | 11.4% |
| 1,2,3,7,8-PeCDD     | 0.0202            | 0.0808 | 0.308   | --   |                 | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 21.7%                | 22.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0191            | 0.0764 | 0.687   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 5.1%                 | 5.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0172            | 0.0688 | 0.473   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.6%                 | 1.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.0184            | 0.0736 | 0.429   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 3.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0188            | 0.0752 | 0.481   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.6%                 | 3.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0195            | 0.078  | 0.267   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0147            | 0.0588 | 0.473   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.6%                 | 3.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.395             | 1.58   |         | EJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0233            | 0.0932 | 3.6     | --   |                 | 3.6                      | 3.6   | 0.01           | 0.0                   | 0.0   | 2.6%                 | 2.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0312            | 0.1248 | 0.929   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0225            | 0.09   | 11.3    | --   |                 | 11.3                     | 11.3  | 0.01           | 0.1                   | 0.1   | 8.2%                 | 8.6%  |
| OCDF                | 0.0116            | 0.0464 | 33.8    | --   |                 | 33.8                     | 33.8  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.0181            | 0.0724 | 96.2    | --   |                 | 96.2                     | 96.2  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-77              | 0.0334            | 0.1336 | 9.92    | B    | <5x*B           | 9.9                      | 5.0   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0425            | 0.17   | 0.802   | B    | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.231             | 0.924  | 59.4    | --   |                 | 59.4                     | 59.4  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-114             | 0.242             | 0.968  | 3.2     | B    | <5x*B           | 3.2                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.313             | 1.252  | 139     | --   |                 | 139.0                    | 139.0 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.1%  |
| PCB-123             | 0.355             | 1.42   | 4.5     | J    |                 | 4.5                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0536            | 0.2144 | 3.69    | --   |                 | 3.7                      | 3.7   | 0.1            | 0.4                   | 0.4   | 26.8%                | 28.1% |
| PCB-156             | 0.0923            | 0.3692 | 23.5    | --   |                 | 23.5                     | 23.5  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.9%  |
| PCB-157             | 0.0954            | 0.3816 | 6.24    | --   |                 | 6.2                      | 6.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.0939            | 0.3756 | 12.7    | --   |                 | 12.7                     | 12.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.422             | 1.688  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.132             | 0.528  | 3.01    | --   |                 | 3.0                      | 3.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.9   | 0.4       | 0.4   | 1.4          | 1.3   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 589               | Fine   | Field   | S8   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0543            | 0.2172 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0284            | 0.1136 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0981            | 0.3924 |         | --   |                 | 0.0                      |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0692            | 0.2768 |         | --   |                 | 0.0                      |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0593            | 0.2372 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.023             | 0.092  | 0.266   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 10.2%                | 12.1% |
| 1,2,3,6,7,8-HxCDF   | 0.0204            | 0.0816 | 0.206   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 6.8%                 | 4.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0242            | 0.0968 |         | --   |                 | 0.0                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0296            | 0.1184 | 0.391   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 13.5%                | 16.1% |
| 1,2,3,4,7,8-HxCDD   | 0.205             | 0.82   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0441            | 0.1764 | 0.279   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 10.2%                | 12.1% |
| 1,2,3,7,8,9-HxCDD   | 0.237             | 0.948  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.4%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0208            | 0.0832 | 1.29    | B    | <5x*B           | 1.3                      | 0.6   | 0.01           | 0.0                   | 0.0   | 4.4%                 | 2.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.362             | 1.448  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0141            | 0.0564 | 4.28    | --   |                 | 4.3                      | 4.3   | 0.01           | 0.0                   | 0.0   | 14.6%                | 17.3% |
| OCDF                | 0.0607            | 0.2428 | 4.85    | --   |                 | 4.9                      | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.046             | 0.184  | 36.1    | --   |                 | 36.1                     | 36.1  | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.5%  |
| PCB-77              | 0.0602            | 0.2408 | 2.94    | B    | <5x*B           | 2.9                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0904            | 0.3616 | 0.718   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.504             | 2.016  | 19.9    | B    | <5x*B           | 19.9                     | 10.0  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-114             | 0.527             | 2.108  | 1.48    | B    | <5x*B           | 1.5                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-118             | 0.57              | 2.28   | 48.5    | B    | <5x*B           | 48.5                     | 24.3  | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 1.0%  |
| PCB-123             | 1.24              | 4.96   |         | E    | <5x*B           | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.184             | 0.736  | 0.845   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 27.1%                | 32.1% |
| PCB-156             | 0.205             | 0.82   | 7.12    | B    | <5x*B           | 7.1                      | 3.6   | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 0.7%  |
| PCB-157             | 1.96              | 7.84   |         | E    | <5x*B           | 1.0                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-167             | 0.209             | 0.836  | 3.8     | B    | <5x*B           | 3.8                      | 1.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.109             | 0.436  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.143             | 0.572  | 1.05    | --   |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.1       | 0.1   | 0.1          | 0.1   |

## APPENDIX A2. Results for RMA Random Field Samples (Study 2)

| Sample ID           | 249               | Fine   | Field   | S9   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.319             | 1.276  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.0024            | 0.0096 |         | --   |                 | 0.0                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.437             | 1.748  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.4%                 |       |
| 2,3,4,7,8-PeCDF     | 0.539             | 2.156  |         | E    |                 | 0.3                      |       | 0.5            | 0.2                   |       | 5.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00221           | 0.0088 | 0.486   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 17.5%                | 24.5% |
| 1,2,3,4,7,8-HxCDF   | 0.0541            | 0.2164 | 0.654   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0483            | 0.1932 | 0.469   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.8%                 | 2.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.0547            | 0.2188 | 0.752   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 3.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0601            | 0.2404 | 0.387   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.4%                 | 1.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.692             | 2.768  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00169           | 0.0068 | 1.31    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 4.6%                 | 6.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.00164           | 0.0066 | 0.819   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 3.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0571            | 0.2284 | 6.42    | --   |                 | 6.4                      | 6.4   | 0.01           | 0.1                   | 0.1   | 2.2%                 | 3.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0825            | 0.33   | 0.657   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0191            | 0.0764 | 34.6    | --   |                 | 34.6                     | 34.6  | 0.01           | 0.3                   | 0.3   | 12.1%                | 17.0% |
| OCDF                | 0.00597           | 0.0239 | 19.1    | --   |                 | 19.1                     | 19.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0226            | 0.0904 | 311     | --   |                 | 311.0                    | 311.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.5%  |
| PCB-77              | 0.0261            | 0.1044 | 37.6    | --   |                 | 37.6                     | 37.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.03              | 0.12   | 1.51    | B    | <5x*B           | 1.5                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.22              | 4.88   | 133     | --   |                 | 133.0                    | 133.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-114             | 1.22              | 4.88   | 4.94    | --   |                 | 4.9                      | 4.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.08              | 4.32   | 254     | B    | <5x*B           | 254.0                    | 127.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-123             | 1.21              | 4.84   | 7.75    | --   |                 | 7.8                      | 7.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0554            | 0.2216 | 11.4    | J    |                 | 11.4                     | 5.7   | 0.1            | 1.1                   | 0.6   | 40.0%                | 28.0% |
| PCB-156             | 0.203             | 0.812  | 61.5    | --   |                 | 61.5                     | 61.5  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.5%  |
| PCB-157             | 0.214             | 0.856  | 14.5    | --   |                 | 14.5                     | 14.5  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.197             | 0.788  | 26.6    | --   |                 | 26.6                     | 26.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0221            | 0.0884 | 1.45    | --   |                 | 1.5                      | 1.5   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-189             | 0.114             | 0.456  | 8.19    | --   |                 | 8.2                      | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.4   | 1.1       | 0.6   | 2.7          | 2.0   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 365               | Fine  | Field   | A zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.777             | 3.108 | 0.375   | NJ     |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.199             | 0.796 |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 3.8%                 |       |
| 1,2,3,7,8-PeCDF     | 0.435             | 1.74  | 0.921   | J      |                 | 0.9                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.7%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.378             | 1.512 | 0.822   | J      |                 | 0.8                      | 0.2   | 0.5            | 0.4                   | 0.1   | 15.3%                | 7.2%  |
| 1,2,3,7,8-PeCDD     | 0.17              | 0.68  | 0.545   | J      |                 | 0.5                      | 0.1   | 1              | 0.5                   | 0.1   | 19.1%                | 7.2%  |
| 1,2,3,4,7,8-HxCDF   | 0.351             | 1.404 | 0.567   | B      | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.3%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.844             | 3.376 |         | E      | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.396             | 1.584 | 0.812   | B      | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 1.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.579             | 2.316 | 0.467   | --     |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.127             | 0.508 | 0.584   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.114             | 0.456 | 0.907   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.4%                 | 6.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.797             | 3.188 |         | E      |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 5.33              | 21.3  |         | D      |                 | 1.3                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.597             | 2.388 |         | --     | <5x*B           | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.269             | 1.076 | 20.5    | J      |                 | 20.5                     | 10.3  | 0.01           | 0.2                   | 0.1   | 7.8%                 | 7.4%  |
| OCDF                | 0.211             | 0.844 | 15.4    | BJ     | <5x*B           | 15.4                     | 7.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.296             | 1.184 | 189     | J      |                 | 189.0                    | 94.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-77              | 0.622             | 2.488 | 30.6    | --     |                 | 30.6                     | 30.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.648             | 2.592 | 1.45    | B      | <5x*B           | 1.5                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.879             | 3.516 | 95.4    | --     |                 | 95.4                     | 95.4  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-114             | 0.859             | 3.436 | 3.56    | --     |                 | 3.6                      | 3.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.755             | 3.02  | 189     | J      |                 | 189.0                    | 94.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.7%  |
| PCB-123             | 0.8               | 3.2   |         | --     |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.367             | 1.468 | 8.44    | --     |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 32.1%                | 60.2% |
| PCB-156             | 0.516             | 2.064 | 35.5    | --     |                 | 35.5                     | 35.5  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.3%  |
| PCB-157             | 0.512             | 2.048 | 9.14    | --     |                 | 9.1                      | 9.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.548             | 2.192 | 24      | --     |                 | 24.0                     | 24.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.426             | 1.704 | 1       | --     |                 | 1.0                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-189             | 0.649             | 2.596 | 5.15    | --     |                 | 5.2                      | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 0.5   | 0.8       | 0.8   | 2.4          | 1.3   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 911               | Fine  | Field   | B zone | Laboratory QC failure during analysis; replaced by sample 911-R. |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|--|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found  | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |  | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 2.2               | 8.8   |         | EJ     |  | 1.1                      |       | 0.1      | 0.1                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.435             | 1.74  |         | --     |  | 0.2                      |       | 1        | 0.2                   |       | 1.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.675             | 2.7   | 19.2    | J      |  | 19.2                     | 9.6   | 0.05     | 1.0                   | 0.5   | 4.9%                 | 3.2%  |
| 2,3,4,7,8-PeCDF     | 0.617             | 2.468 | 6.62    | J      |  | 6.6                      | 3.3   | 0.5      | 3.3                   | 1.7   | 17.0%                | 11.0% |
| 1,2,3,7,8-PeCDD     | 0.341             | 1.364 | 1.44    | J      |  | 1.4                      | 0.7   | 1        | 1.4                   | 0.7   | 7.2%                 | 4.7%  |
| 1,2,3,4,7,8-HxCDF   | 2.1               | 8.4   | 40.4    | --     |  | 40.4                     | 40.4  | 0.1      | 4.0                   | 4.0   | 20.8%                | 27.0% |
| 1,2,3,6,7,8-HxCDF   | 2.82              | 11.28 | 19.4    | --     |  | 19.4                     | 19.4  | 0.1      | 1.9                   | 1.9   | 10.0%                | 13.0% |
| 2,3,4,6,7,8-HxCDF   | 2.56              | 10.24 | 10.7    | --     |  | 10.7                     | 10.7  | 0.1      | 1.1                   | 1.1   | 5.5%                 | 7.2%  |
| 1,2,3,7,8,9-HxCDF   | 4.67              | 18.68 | 9.71    | --     |  | 9.7                      | 4.9   | 0.1      | 1.0                   | 0.5   | 5.0%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.254             | 1.016 | 2.62    | --     |  | 2.6                      | 2.6   | 0.1      | 0.3                   | 0.3   | 1.3%                 | 1.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.237             | 0.948 | 4.12    | --     |  | 4.1                      | 4.1   | 0.1      | 0.4                   | 0.4   | 2.1%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.228             | 0.912 | 2.47    | --     |  | 2.5                      | 2.5   | 0.1      | 0.3                   | 0.3   | 1.3%                 | 1.7%  |
| 1,2,3,4,6,7,8-HpCDF | 105               | 420   |         | DI     |  | 26.3                     |       | 0.01     | 0.3                   |       | 1.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 1.9               | 7.6   | 43.5    | --     |  | 43.5                     | 43.5  | 0.01     | 0.4                   | 0.4   | 2.2%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.431             | 1.724 | 89.5    | J      |  | 89.5                     | 44.8  | 0.01     | 0.9                   | 0.4   | 4.6%                 | 3.0%  |
| OCDF                | 0.406             | 1.624 | 1350    | J      |  | 1350.0                   | 675.0 | 0.0001   | 0.1                   | 0.1   | 0.7%                 | 0.5%  |
| OCDD                | 0.588             | 2.352 | 761     | J      |  | 761.0                    | 380.5 | 0.0001   | 0.1                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-77              | 0.797             | 3.188 | 98.7    | --     |  | 98.7                     | 98.7  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.864             | 3.456 | 3.7     | B      | <5x*B  | 3.7                      | 1.9   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 14                | 56    | 499     | C      |  | 499.0                    | 499.0 | 0.0001   | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 13.7              | 54.8  | 19.6    | --     |  | 19.6                     | 9.8   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 10.8              | 43.2  | 1030    | CJ     |  | 1030.0                   | 515.0 | 0.0001   | 0.1                   | 0.1   | 0.5%                 | 0.3%  |
| PCB-123             | 11.5              | 46    |         | --     |  | 5.8                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.726             | 2.904 | 24.4    | --     |  | 24.4                     | 24.4  | 0.1      | 2.4                   | 2.4   | 12.5%                | 16.3% |
| PCB-156             | 1.02              | 4.08  | 171     | --     |  | 171.0                    | 171.0 | 0.0005   | 0.1                   | 0.1   | 0.4%                 | 0.6%  |
| PCB-157             | 1.01              | 4.04  | 40.4    | --     |  | 40.4                     | 40.4  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 1.18              | 4.72  | 107     | --     |  | 107.0                    | 107.0 | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.972             | 3.888 | 2.75    | --     |  | 2.8                      | 1.4   | 0.01     | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 1.41              | 5.64  | 19.2    | --     |  | 19.2                     | 19.2  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 16.8              | 12.3  | 2.6       | 2.6   | 19.4         | 14.9  |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 911-R             | Fine   | Field   | B zone | Replacement sample for (911) due to a laboratory QC failure. |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|--|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found  | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |  | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1                 | 4      |         | E      |  | 0.5                      |       | 0.1      | 0.1                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.00582           | 0.0233 |         | --     |  | 0.0                      |       | 1        | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.056             | 0.224  | 3.3     | --     |  | 3.3                      | 3.3   | 0.05     | 0.2                   | 0.2   | 1.6%                 | 1.7%  |
| 2,3,4,7,8-PeCDF     | 0.0411            | 0.1644 | 3.48    | --     |  | 3.5                      | 3.5   | 0.5      | 1.8                   | 1.8   | 17.2%                | 17.6% |
| 1,2,3,7,8-PeCDD     | 0.0259            | 0.1036 | 1.33    | --     |  | 1.3                      | 1.3   | 1        | 1.3                   | 1.3   | 12.7%                | 13.1% |
| 1,2,3,4,7,8-HxCDF   | 0.128             | 0.512  | 5.99    | --     |  | 6.0                      | 6.0   | 0.1      | 0.6                   | 0.6   | 5.9%                 | 6.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.11              | 0.44   | 4.05    | --     |  | 4.1                      | 4.1   | 0.1      | 0.4                   | 0.4   | 4.0%                 | 4.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.13              | 0.52   | 4.66    | --     |  | 4.7                      | 4.7   | 0.1      | 0.5                   | 0.5   | 4.6%                 | 4.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.194             | 0.776  | 2.08    | --     |  | 2.1                      | 2.1   | 0.1      | 0.2                   | 0.2   | 2.1%                 | 2.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0155            | 0.062  | 2.18    | --     |  | 2.2                      | 2.2   | 0.1      | 0.2                   | 0.2   | 2.2%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0109            | 0.0436 | 3.43    | --     |  | 3.4                      | 3.4   | 0.1      | 0.3                   | 0.3   | 3.3%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0133            | 0.0532 | 1.91    | J      |  | 1.9                      | 1.0   | 0.1      | 0.2                   | 0.1   | 1.9%                 | 1.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.101             | 0.404  | 48.5    | --     |  | 48.5                     | 48.5  | 0.01     | 0.5                   | 0.5   | 4.8%                 | 4.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.217             | 0.868  | 7.98    | --     |  | 8.0                      | 8.0   | 0.01     | 0.1                   | 0.1   | 0.8%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.08              | 0.32   | 88.2    | --     |  | 88.2                     | 88.2  | 0.01     | 0.9                   | 0.9   | 8.6%                 | 8.9%  |
| OCDF                | 0.00903           | 0.0361 | 180     | --     |  | 180.0                    | 180.0 | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.011             | 0.044  | 628     | --     |  | 628.0                    | 628.0 | 0.0001   | 0.1                   | 0.1   | 0.6%                 | 0.6%  |
| PCB-77              | 0.0553            | 0.2212 | 108     | --     |  | 108.0                    | 108.0 | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0847            | 0.3388 | 4.96    | --     |  | 5.0                      | 5.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 7                 | 28     | 687     | CJ     |  | 687.0                    | 343.5 | 0.0001   | 0.1                   | 0.0   | 0.7%                 | 0.3%  |
| PCB-114             | 7.31              | 29.24  | 28.4    | --     |  | 28.4                     | 14.2  | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 7.11              | 28.44  | 1310    | CJ     |  | 1310.0                   | 655.0 | 0.0001   | 0.1                   | 0.1   | 1.3%                 | 0.7%  |
| PCB-123             | 8.08              | 32.32  | 30.1    | --     |  | 30.1                     | 15.1  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.317             | 1.268  | 25.6    | --     |  | 25.6                     | 25.6  | 0.1      | 2.6                   | 2.6   | 25.1%                | 25.8% |
| PCB-156             | 1.11              | 4.44   | 235     | --     |  | 235.0                    | 235.0 | 0.0005   | 0.1                   | 0.1   | 1.2%                 | 1.2%  |
| PCB-157             | 1.15              | 4.6    | 60.4    | --     |  | 60.4                     | 60.4  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 1.13              | 4.52   | 107     | --     |  | 107.0                    | 107.0 | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.153             | 0.612  | 2.76    | J      |  | 2.8                      | 1.4   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-189             | 0.498             | 1.992  | 23.1    | --     |  | 23.1                     | 23.1  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.4               | 7.2   | 2.9       | 2.8   | 10.3         | 10.0  |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 471               | Fine  | Field   | C zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.761             | 3.044 |         | J      |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 2,3,7,8-TCDD        | 0.291             | 1.164 |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 4.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.257             | 1.028 | 0.509   | J      |                 | 0.5                      | 0.1   | 0.05           | 0.0                   | 0.0   | 1.2%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.222             | 0.888 | 0.528   | J      |                 | 0.5                      | 0.1   | 0.5            | 0.3                   | 0.1   | 11.8%                | 4.2%  |
| 1,2,3,7,8-PeCDD     | 0.441             | 1.764 |         | EJ     |                 | 0.2                      |       | 1              | 0.2                   |       | 9.5%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.268             | 1.072 | 0.816   | B      | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 1.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.358             | 1.432 | 0.788   | B      | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 1.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.287             | 1.148 | 0.675   | B      | <5x*B           | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.3%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.395             | 1.58  | 0.443   | --     |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 1.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.541             | 2.164 |         | E      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.157             | 0.628 | 0.868   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 7.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.16              | 0.64  | 0.768   | --     |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 3.8%                 | 6.7%  |
| 1,2,3,4,6,7,8-HpCDF | 6.01              | 24.04 |         | D      |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.247             | 0.988 | 0.842   | B      | <5x*B           | 0.8                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.195             | 0.78  | 19.9    | J      |                 | 19.9                     | 10.0  | 0.01           | 0.2                   | 0.1   | 9.4%                 | 8.4%  |
| OCDF                | 0.175             | 0.7   | 22.7    | BJ     | <5x*B           | 22.7                     | 11.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.147             | 0.588 | 171     | J      |                 | 171.0                    | 85.5  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.7%  |
| PCB-77              | 0.705             | 2.82  | 24.9    | --     |                 | 24.9                     | 24.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.763             | 3.052 | 1.3     | B      | <5x*B           | 1.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.17              | 4.68  | 96.8    | --     |                 | 96.8                     | 96.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-114             | 1.14              | 4.56  | 3.73    | --     |                 | 3.7                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.993             | 3.972 | 211     | J      |                 | 211.0                    | 105.5 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.9%  |
| PCB-123             | 1.05              | 4.2   |         | --     |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.581             | 2.324 | 7.23    | --     |                 | 7.2                      | 7.2   | 0.1            | 0.7                   | 0.7   | 34.1%                | 60.7% |
| PCB-156             | 0.777             | 3.108 | 40.3    | --     |                 | 40.3                     | 40.3  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.7%  |
| PCB-157             | 0.771             | 3.084 | 9.73    | --     |                 | 9.7                      | 9.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-167             | 0.792             | 3.168 | 23.4    | --     |                 | 23.4                     | 23.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.891             | 3.564 |         | E      |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.628             | 2.512 | 5.97    | --     |                 | 6.0                      | 6.0   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 0.4   | 0.7       | 0.7   | 2.0          | 1.1   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 145               | Fine   | Field   | D zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.451             | 1.804  | 0.216   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.159             | 0.636  |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 5.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.291             | 1.164  |         | EJ     |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.173             | 0.692  | 0.398   | J      |                 | 0.4                      | 0.1   | 0.5            | 0.2                   | 0.1   | 11.8%                | 5.3%  |
| 1,2,3,7,8-PeCDD     | 0.339             | 1.356  |         | EJ     |                 | 0.2                      |       | 1              | 0.2                   |       | 11.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.195             | 0.78   | 0.492   | B      | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.259             | 1.036  | 0.541   | DB     | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.209             | 0.836  | 0.511   | B      | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 1.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.303             | 1.212  | 0.457   | --     |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 2.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.418             | 1.672  |         | E      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0383            | 0.1532 | 0.725   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 4.1%                 | 7.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.0379            | 0.1516 | 0.555   | --     |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 6.4%  |
| 1,2,3,4,6,7,8-HpCDF | 5.01              | 20.04  |         | D      |                 | 1.3                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.311             | 1.244  | 0.494   | B      | <5x*B           | 0.5                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.156             | 0.624  | 17.6    | J      |                 | 17.6                     | 8.8   | 0.01           | 0.2                   | 0.1   | 10.4%                | 9.4%  |
| OCDF                | 0.168             | 0.672  | 11.7    | BJ     | <5x*B           | 11.7                     | 5.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0575            | 0.23   | 163     | J      |                 | 163.0                    | 81.5  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.9%  |
| PCB-77              | 0.821             | 3.284  | 18.5    | --     |                 | 18.5                     | 18.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.977             | 3.908  |         | E      | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.65              | 6.6    | 58.2    | B      | <5x*B           | 58.2                     | 29.1  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 1.61              | 6.44   | 2       | --     |                 | 2.0                      | 1.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.41              | 5.64   | 117     | BJ     | <5x*B           | 117.0                    | 58.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| PCB-123             | 1.49              | 5.96   |         | --     |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.355             | 1.42   | 5.9     | --     |                 | 5.9                      | 5.9   | 0.1            | 0.6                   | 0.6   | 34.9%                | 62.8% |
| PCB-156             | 0.635             | 2.54   | 24.5    | --     |                 | 24.5                     | 24.5  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.3%  |
| PCB-157             | 0.63              | 2.52   | 6.34    | --     |                 | 6.3                      | 6.3   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.544             | 2.176  | 14.2    | --     |                 | 14.2                     | 14.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.314             | 1.256  | 0.864   | --     |                 | 0.9                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-189             | 0.448             | 1.792  | 4.44    | --     |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.4   | 0.6       | 0.6   | 1.8          | 1.0   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 436               | Fine  | Field   | E zone |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.448             | 1.792 |         | J      |                 | 0.2                      |       | 0.1      | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.277             | 1.108 |         | --     |                 | 0.1                      |       | 1        | 0.1                   |       | 2.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.391             | 1.564 | 0.487   | J      |                 | 0.5                      | 0.1   | 0.05     | 0.0                   | 0.0   | 0.7%                 | 0.2%  |
| 2,3,4,7,8-PeCDF     | 0.825             | 3.3   |         | EJ     |                 | 0.4                      |       | 0.5      | 0.2                   |       | 5.8%                 |       |
| 1,2,3,7,8-PeCDD     | 0.559             | 2.236 |         | EJ     |                 | 0.3                      |       | 1        | 0.3                   |       | 8.6%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.345             | 1.38  | 1.11    | B      | <5x*B           | 1.1                      | 0.3   | 0.1      | 0.1                   | 0.0   | 3.2%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.471             | 1.884 | 1.1     | BD     | <5x*B           | 0.6                      |       | 0.1      | 0.1                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.385             | 1.54  | 0.941   | B      | <5x*B           | 0.9                      | 0.2   | 0.1      | 0.1                   | 0.0   | 2.6%                 | 0.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.548             | 2.192 |         | E      |                 | 0.3                      |       | 0.1      | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.163             | 0.652 | 0.877   | --     |                 | 0.9                      | 0.9   | 0.1      | 0.1                   | 0.1   | 2.6%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.136             | 0.544 | 1.68    | --     |                 | 1.7                      | 1.7   | 0.1      | 0.2                   | 0.2   | 4.9%                 | 7.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.137             | 0.548 | 1.12    | --     |                 | 1.1                      | 1.1   | 0.1      | 0.1                   | 0.1   | 3.2%                 | 4.8%  |
| 1,2,3,4,6,7,8-HpCDF | 11.2              | 44.8  |         | D      |                 | 2.8                      |       | 0.01     | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.473             | 1.892 | 0.987   | B      | <5x*B           | 1.0                      | 0.2   | 0.01     | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.157             | 0.628 | 45.5    | J      |                 | 45.5                     | 22.8  | 0.01     | 0.5                   | 0.2   | 13.1%                | 10.0% |
| OCDF                | 0.342             | 1.368 | 41.1    | J      |                 | 41.1                     | 20.6  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.268             | 1.072 | 483     | J      |                 | 483.0                    | 241.5 | 0.0001   | 0.0                   | 0.0   | 1.4%                 | 1.1%  |
| PCB-77              | 0.963             | 3.852 | 47.7    | --     |                 | 47.7                     | 47.7  | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 1.11              | 4.44  | 1.84    | B      | <5x*B           | 1.8                      | 0.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.06              | 4.24  | 183     | --     |                 | 183.0                    | 183.0 | 0.0001   | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-114             | 1.04              | 4.16  | 7.5     | --     |                 | 7.5                      | 7.5   | 0.0005   | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.92              | 3.68  | 358     | J      |                 | 358.0                    | 179.0 | 0.0001   | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-123             | 0.976             | 3.904 |         | --     |                 | 0.5                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.572             | 2.288 | 14.9    | --     |                 | 14.9                     | 14.9  | 0.1      | 1.5                   | 1.5   | 43.0%                | 65.3% |
| PCB-156             | 0.676             | 2.704 | 70.6    | --     |                 | 70.6                     | 70.6  | 0.0005   | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| PCB-157             | 0.67              | 2.68  | 17.6    | --     |                 | 17.6                     | 17.6  | 0.0005   | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.68              | 2.72  | 43.1    | --     |                 | 43.1                     | 43.1  | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.329             | 1.316 | 2       | --     |                 | 2.0                      | 2.0   | 0.01     | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-189             | 0.529             | 2.116 | 9.83    | --     |                 | 9.8                      | 9.8   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 0.6   | 1.5       | 1.5   | 3.3          | 2.1   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID 493       | Fine              | Field  | F zone  |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.566             | 2.264  |         | J    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.193             | 0.772  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 4.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.298             | 1.192  | 0.45    | J    |                 | 0.5                      | 0.1   | 0.05           | 0.0                   | 0.0   | 1.1%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.275             | 1.1    | 0.377   | J    |                 | 0.4                      | 0.1   | 0.5            | 0.2                   | 0.1   | 8.8%                 | 3.6%  |
| 1,2,3,7,8-PeCDD     | 0.112             | 0.448  | 0.455   | J    |                 | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 22.1%                | 14.3% |
| 1,2,3,4,7,8-HxCDF   | 0.119             | 0.476  | 0.666   | B    | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 2.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.155             | 0.62   | 0.521   | B    | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.2%                 | 0.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.133             | 0.532  | 0.513   | B    | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.2%                 | 0.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.178             | 0.712  | 0.41    | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.8%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0808            | 0.3232 | 0.528   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.0705            | 0.282  | 0.755   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 3.5%                 | 5.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.07              | 0.28   | 0.653   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 5.0%  |
| 1,2,3,4,6,7,8-HpCDF | 4.37              | 17.48  |         | D    |                 | 1.1                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.509             | 2.036  |         | E    | <5x*B           | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.17              | 0.68   | 18.3    | J    |                 | 18.3                     | 9.2   | 0.01           | 0.2                   | 0.1   | 8.1%                 | 6.6%  |
| OCDF                | 0.194             | 0.776  | 14.6    | BJ   | <5x*B           | 14.6                     | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0349            | 0.1396 | 188     | J    |                 | 188.0                    | 94.0  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.7%  |
| PCB-77              | 0.561             | 2.244  | 18      | --   |                 | 18.0                     | 18.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.564             | 2.256  | 1.04    | B    | <5x*B           | 1.0                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 6.75              | 27     | 64.2    | --   |                 | 64.2                     | 64.2  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-114             | 0.277             | 1.108  | 2.46    | --   |                 | 2.5                      | 2.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 5.39              | 21.56  | 131     | BJ   | <5x*B           | 131.0                    | 65.5  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-123             | 5.72              | 22.88  |         | --   |                 | 2.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.368             | 1.472  | 7.32    | --   |                 | 7.3                      | 7.3   | 0.1            | 0.7                   | 0.7   | 32.2%                | 52.2% |
| PCB-156             | 0.849             | 3.396  | 29.5    | --   |                 | 29.5                     | 29.5  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-157             | 0.842             | 3.368  | 8.19    | --   |                 | 8.2                      | 8.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.85              | 3.4    | 23      | --   |                 | 23.0                     | 23.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.594             | 2.376  | 1.05    | --   |                 | 1.1                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-189             | 0.466             | 1.864  | 5.39    | --   |                 | 5.4                      | 5.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 0.7   | 0.7       | 0.7   | 2.3          | 1.4   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 435               | Fine  | Field   | G zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.551             | 2.204 |         | J      |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.314             | 1.256 |         | --     |                 | 0.2                      |       | 1              | 0.2                   |       | 5.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.186             | 0.744 | 0.534   | J      |                 | 0.5                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.2%  |
| 2,3,4,7,8-PeCDF     | 0.164             | 0.656 | 0.97    | J      |                 | 1.0                      | 0.5   | 0.5            | 0.5                   | 0.3   | 14.1%                | 11.8% |
| 1,2,3,7,8-PeCDD     | 0.566             | 2.264 |         | EJ     |                 | 0.3                      |       | 1              | 0.3                   |       | 8.4%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.304             | 1.216 | 1.1     | B      | <5x*B           | 1.1                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.461             | 1.844 | 1.19    | DB     | <5x*B           | 0.6                      |       | 0.1            | 0.1                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.341             | 1.364 | 1.22    | --     |                 | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 3.4%                 | 2.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.485             | 1.94  | 0.599   | --     |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.7%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.162             | 0.648 | 0.923   | --     |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDD   | 1.87              | 7.48  |         | E      |                 | 0.9                      |       | 0.1            | 0.1                   |       | 2.5%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.138             | 0.552 | 1.48    | --     |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 4.2%                 | 7.1%  |
| 1,2,3,4,6,7,8-HpCDF | 13.5              | 54    |         | D      |                 | 3.4                      |       | 0.01           | 0.0                   |       | 1.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.272             | 1.088 | 1.02    | B      | <5x*B           | 1.0                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.208             | 0.832 | 46.8    | J      |                 | 46.8                     | 23.4  | 0.01           | 0.5                   | 0.2   | 13.2%                | 11.1% |
| OCDF                | 0.156             | 0.624 | 39.9    | J      |                 | 39.9                     | 20.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.135             | 0.54  | 483     | J      |                 | 483.0                    | 241.5 | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.1%  |
| PCB-77              | 0.416             | 1.664 | 33.2    | --     |                 | 33.2                     | 33.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.48              | 1.92  | 1.5     | B      | <5x*B           | 1.5                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.09              | 4.36  | 172     | B      |                 | 172.0                    | 86.0  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 1.07              | 4.28  | 7.23    | --     |                 | 7.2                      | 7.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.93              | 3.72  | 355     | J      |                 | 355.0                    | 177.5 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-123             | 0.985             | 3.94  |         | --     |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.32              | 1.28  | 11.4    | --     |                 | 11.4                     | 11.4  | 0.1            | 1.1                   | 1.1   | 32.0%                | 54.0% |
| PCB-156             | 0.86              | 3.44  | 69.7    | --     |                 | 69.7                     | 69.7  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.7%  |
| PCB-157             | 0.853             | 3.412 | 16.1    | --     |                 | 16.1                     | 16.1  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-167             | 0.944             | 3.776 | 44.6    | B      |                 | 44.6                     | 22.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.267             | 1.068 | 1.51    | --     |                 | 1.5                      | 1.5   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-189             | 0.683             | 2.732 | 8.89    | --     |                 | 8.9                      | 8.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.3               | 0.9   | 1.1       | 1.1   | 3.4          | 2.0   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 269               | Fine   | Field   | H zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.439             | 1.756  |         | J      |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.194             | 0.776  |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 4.5%                 |       |
| 1,2,3,7,8-PeCDF     | 0.371             | 1.484  |         | EJ     |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.258             | 1.032  | 0.447   | J      |                 | 0.4                      | 0.1   | 0.5            | 0.2                   | 0.1   | 9.1%                 | 3.6%  |
| 1,2,3,7,8-PeCDD     | 0.137             | 0.548  | 0.325   | J      |                 | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 13.6%                | 7.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.0773            | 0.3092 | 0.669   | B      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 2.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.104             | 0.416  | 0.802   | BD     | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0884            | 0.3536 | 0.659   | B      | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 2.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.119             | 0.476  | 0.499   | --     |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.174             | 0.696  | 0.486   | --     |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.3%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.155             | 0.62   | 0.959   | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 7.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.153             | 0.612  | 0.661   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 5.0%  |
| 1,2,3,4,6,7,8-HpCDF | 7.35              | 29.4   |         | D      |                 | 1.8                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.229             | 0.916  | 0.798   | B      | <5x*B           | 0.8                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.209             | 0.836  | 24.3    | J      |                 | 24.3                     | 12.2  | 0.01           | 0.2                   | 0.1   | 11.0%                | 8.7%  |
| OCDF                | 0.202             | 0.808  | 24.8    | BJ     | <5x*B           | 24.8                     | 12.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.111             | 0.444  | 252     | J      |                 | 252.0                    | 126.0 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.9%  |
| PCB-77              | 0.454             | 1.816  | 24      | --     |                 | 24.0                     | 24.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 1.24              | 4.96   |         | E      | <5x*B           | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 6.25              | 25     | 89.1    | --     |                 | 89.1                     | 89.1  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-114             | 0.908             | 3.632  | 3.71    | --     |                 | 3.7                      | 3.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 5.43              | 21.72  | 188     | J      |                 | 188.0                    | 94.0  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-123             | 5.76              | 23.04  |         | --     |                 | 2.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.455             | 1.82   | 7.57    | --     |                 | 7.6                      | 7.6   | 0.1            | 0.8                   | 0.8   | 34.5%                | 54.1% |
| PCB-156             | 0.381             | 1.524  | 36      | --     |                 | 36.0                     | 36.0  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.3%  |
| PCB-157             | 0.378             | 1.512  | 9.29    | --     |                 | 9.3                      | 9.3   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.34              | 1.36   | 17.4    | --     |                 | 17.4                     | 17.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.228             | 0.912  | 1.1     | --     |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-189             | 0.457             | 1.828  | 5.27    | --     |                 | 5.3                      | 5.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.6   | 0.8       | 0.8   | 2.2          | 1.4   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 114               | Fine   | Field   | I zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.788             | 3.152  |         | J      |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 0.262             | 1.048  |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 3.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.211             | 0.844  | 0.408   | J      |                 | 0.4                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.3%  |
| 2,3,4,7,8-PeCDF     | 0.19              | 0.76   | 0.512   | J      |                 | 0.5                      | 0.1   | 0.5            | 0.3                   | 0.1   | 9.0%                 | 3.1%  |
| 1,2,3,7,8-PeCDD     | 0.147             | 0.588  | 0.528   | J      |                 | 0.5                      | 0.1   | 1              | 0.5                   | 0.1   | 18.0%                | 6.2%  |
| 1,2,3,4,7,8-HxCDF   | 0.364             | 1.456  | 0.855   | B      | <5x*B           | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 1.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.506             | 2.024  | 0.897   | B      | <5x*B           | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 1.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.378             | 1.512  | 0.664   | B      | <5x*B           | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.517             | 2.068  | 0.46    | --     |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.124             | 0.496  | 0.668   | --     |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 4.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.108             | 0.432  | 1.09    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 6.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.108             | 0.432  | 1.01    | --     |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 3.6%                 | 6.2%  |
| 1,2,3,4,6,7,8-HpCDF | 7.82              | 31.28  |         | D      |                 | 2.0                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.678             | 2.712  |         | E      | <5x*B           | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.143             | 0.572  | 29.2    | J      |                 | 29.2                     | 14.6  | 0.01           | 0.3                   | 0.1   | 10.5%                | 9.1%  |
| OCDF                | 0.198             | 0.792  | 25.5    | J      |                 | 25.5                     | 12.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0617            | 0.2468 | 333     | J      |                 | 333.0                    | 166.5 | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.0%  |
| PCB-77              | 0.563             | 2.252  | 25.6    | --     |                 | 25.6                     | 25.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.618             | 2.472  | 1.22    | B      | <5x*B           | 1.2                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.41              | 5.64   | 81.7    | --     |                 | 81.7                     | 81.7  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-114             | 1.37              | 5.48   | 2.78    | --     |                 | 2.8                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 1.16              | 4.64   | 145     | BJ     | <5x*B           | 145.0                    | 72.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-123             | 1.23              | 4.92   |         | --     |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.29              | 1.16   | 9       | --     |                 | 9.0                      | 9.0   | 0.1            | 0.9                   | 0.9   | 32.4%                | 56.0% |
| PCB-156             | 0.416             | 1.664  | 35.2    | --     |                 | 35.2                     | 35.2  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 1.1%  |
| PCB-157             | 0.413             | 1.652  | 9.37    | --     |                 | 9.4                      | 9.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.412             | 1.648  | 21.9    | --     |                 | 21.9                     | 21.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.477             | 1.908  | 1.11    | --     |                 | 1.1                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-189             | 0.519             | 2.076  | 5.54    | --     |                 | 5.5                      | 5.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 0.6   | 0.9       | 0.9   | 2.7          | 1.5   |

## APPENDIX A3. Results for RMA WTP Field Samples (Study 3)

| Sample ID           | 987               | Fine   | Field   | J zone |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|--------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |        | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.569             | 2.276  | 0.257   | NJ     |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.153             | 0.612  |         | --     |                 | 0.1                      |       | 1              | 0.1                   |       | 4.3%                 |       |
| 1,2,3,7,8-PeCDF     | 0.167             | 0.668  | 0.41    | --     |                 | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.154             | 0.616  | 0.494   | J      |                 | 0.5                      | 0.1   | 0.5            | 0.3                   | 0.1   | 10.8%                | 3.2%  |
| 1,2,3,7,8-PeCDD     | 0.428             | 1.712  |         | EJ     |                 | 0.2                      |       | 1              | 0.2                   |       | 8.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.169             | 0.676  | 0.72    | B      | <5x*B           | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 2.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.194             | 0.776  | 0.769   | DB     | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.182             | 0.728  | 0.705   | B      | <5x*B           | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.222             | 0.888  | 0.492   | --     |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.2%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.173             | 0.692  | 0.671   | --     |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 1.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.149             | 0.596  | 1.26    | --     |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 5.6%                 | 8.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.149             | 0.596  | 1.05    | --     |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 4.8%                 | 7.1%  |
| 1,2,3,4,6,7,8-HpCDF | 7.63              | 30.52  |         | D      |                 | 1.9                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.139             | 0.556  | 0.742   | B      | <5x*B           | 0.7                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.175             | 0.7    | 32.4    | --     |                 | 32.4                     | 32.4  | 0.01           | 0.3                   | 0.3   | 14.0%                | 20.8% |
| OCDF                | 0.0918            | 0.3672 | 20.2    | B      | <5x*B           | 20.2                     | 10.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0574            | 0.2296 | 360     | --     |                 | 360.0                    | 360.0 | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 2.3%  |
| PCB-77              | 0.608             | 2.432  | 21.7    | --     |                 | 21.7                     | 21.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.675             | 2.7    | 1.21    | B      | <5x*B           | 1.2                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4.42              | 17.68  | 112     | --     |                 | 112.0                    | 112.0 | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-114             | 4.32              | 17.28  | 5.19    | --     |                 | 5.2                      | 2.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 3.52              | 14.08  | 239     | BJ     |                 | 239.0                    | 119.5 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-123             | 3.74              | 14.96  |         | --     |                 | 1.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.327             | 1.308  | 7.22    | --     |                 | 7.2                      | 7.2   | 0.1            | 0.7                   | 0.7   | 31.2%                | 46.2% |
| PCB-156             | 0.387             | 1.548  | 41.3    | --     |                 | 41.3                     | 41.3  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.3%  |
| PCB-157             | 0.384             | 1.536  | 9.99    | --     |                 | 10.0                     | 10.0  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.337             | 1.348  | 21.1    | --     |                 | 21.1                     | 21.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.268             | 1.072  | 1.18    | --     |                 | 1.2                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-189             | 0.325             | 1.3    | 5.81    | --     |                 | 5.8                      | 5.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 0.6   | 0.7       | 0.7   | 2.2          | 1.3   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 105               | Fine  | Field   | P-1  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.252             | 1.008 | 0.885   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.283             | 1.132 |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 1.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.448             | 1.792 | 2.39    | --   |                 | 2.4                      | 2.4   | 0.05           | 0.1                   | 0.1   | 2.3%                 | 3.2%  |
| 2,3,4,7,8-PeCDF     | 0.408             | 1.632 | 1.28    | --   |                 | 1.3                      | 0.6   | 0.5            | 0.7                   | 0.3   | 12.3%                | 8.1%  |
| 1,2,3,7,8-PeCDD     | 1.28              | 5.12  |         | E    |                 | 0.6                      |       | 1              | 0.6                   |       | 11.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.744             | 2.976 | 4.69    | --   |                 | 4.7                      | 4.7   | 0.1            | 0.5                   | 0.5   | 8.9%                 | 12.7% |
| 1,2,3,6,7,8-HxCDF   | 0.675             | 2.7   | 3.43    | --   |                 | 3.4                      | 3.4   | 0.1            | 0.3                   | 0.3   | 6.4%                 | 9.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.887             | 3.548 | 1.98    | --   |                 | 2.0                      | 1.0   | 0.1            | 0.2                   | 0.1   | 3.8%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 1.23              | 4.92  | 1.45    | B    | <5x*B           | 1.5                      | 0.4   | 0.1            | 0.2                   | 0.0   | 2.8%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.569             | 2.276 | 0.789   | --   |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.5%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.483             | 1.932 | 1.3     | --   |                 | 1.3                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 1.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.485             | 1.94  | 1.02    | --   |                 | 1.0                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.9%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDF | 19.3              | 77.2  |         | D    |                 | 4.8                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 1.2               | 4.8   | 6.36    | --   |                 | 6.4                      | 6.4   | 0.01           | 0.1                   | 0.1   | 1.2%                 | 1.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.446             | 1.784 | 41.8    | --   |                 | 41.8                     | 41.8  | 0.01           | 0.4                   | 0.4   | 7.9%                 | 11.3% |
| OCDF                | 0.23              | 0.92  | 142     | --   |                 | 142.0                    | 142.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| OCDD                | 0.25              | 1     | 299     | --   |                 | 299.0                    | 299.0 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-77              | 1.02              | 4.08  | 166     | --   |                 | 166.0                    | 166.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-81              | 1.12              | 4.48  | 6.47    | J    |                 | 6.5                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.94              | 11.76 | 660     | CJ   |                 | 660.0                    | 330.0 | 0.0001         | 0.1                   | 0.0   | 1.2%                 | 0.9%  |
| PCB-114             | 2.88              | 11.52 |         | --   | <5x*B           | 1.4                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 2.56              | 10.24 | 1100    | CJ   |                 | 1100.0                   | 550.0 | 0.0001         | 0.1                   | 0.1   | 2.1%                 | 1.5%  |
| PCB-123             | 54                | 216   |         | E    | <5x*B           | 27.0                     |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-126             | 0.459             | 1.836 | 14.4    | --   |                 | 14.4                     | 14.4  | 0.1            | 1.4                   | 1.4   | 27.2%                | 38.9% |
| PCB-156             | 1.03              | 4.12  | 150     | --   |                 | 150.0                    | 150.0 | 0.0005         | 0.1                   | 0.1   | 1.4%                 | 2.0%  |
| PCB-157             | 1.07              | 4.28  | 33.7    | --   |                 | 33.7                     | 33.7  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-167             | 0.948             | 3.792 | 63.9    | J    |                 | 63.9                     | 32.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.151             | 0.604 | 1.11    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 1.83              | 7.32  | 18.8    | J    |                 | 18.8                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.5               | 2.0   | 1.7       | 1.6   | 5.2          | 3.6   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 714               | Fine  | Field   | P-10 |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.558             | 2.232 | 0.633   | NJ   |                 | 0.3                      |        | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.17              | 0.68  |         | --   |                 | 0.1                      |        | 1              | 0.1                   |       | 1.5%                 |       |
| 1,2,3,7,8-PeCDF     | 0.382             | 1.528 | 0.652   | --   |                 | 0.7                      | 0.3    | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| 2,3,4,7,8-PeCDF     | 0.349             | 1.396 | 0.486   | --   |                 | 0.5                      | 0.2    | 0.5            | 0.3                   | 0.1   | 3.7%                 | 1.8%  |
| 1,2,3,7,8-PeCDD     | 0.104             | 0.416 | 0.53    | --   |                 | 0.5                      | 0.5    | 1              | 0.5                   | 0.5   | 7.4%                 | 8.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.249             | 0.996 | 1.32    | --   |                 | 1.3                      | 1.3    | 0.1            | 0.1                   | 0.1   | 1.9%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.958             | 3.832 |         | E    |                 | 0.5                      |        | 0.1            | 0.1                   |       | 0.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.31              | 1.24  | 0.942   | B    | <5x*B           | 0.9                      | 0.2    | 0.1            | 0.1                   | 0.0   | 1.3%                 | 0.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.466             | 1.864 | 0.617   | B    | <5x*B           | 0.6                      | 0.2    | 0.1            | 0.1                   | 0.0   | 0.9%                 | 0.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.171             | 0.684 | 0.865   | --   |                 | 0.9                      | 0.9    | 0.1            | 0.1                   | 0.1   | 1.3%                 | 1.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.153             | 0.612 | 1.44    | --   |                 | 1.4                      | 1.4    | 0.1            | 0.1                   | 0.1   | 2.1%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.152             | 0.608 | 1.05    | --   |                 | 1.1                      | 1.1    | 0.1            | 0.1                   | 0.1   | 1.6%                 | 1.9%  |
| 1,2,3,4,6,7,8-HpCDF | 12.9              | 51.6  |         | D    |                 | 3.2                      |        | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 1.59              | 6.36  |         | E    | <5x*B           | 0.8                      |        | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.553             | 2.212 | 32.4    | --   |                 | 32.4                     | 32.4   | 0.01           | 0.3                   | 0.3   | 4.8%                 | 5.7%  |
| OCDF                | 0.137             | 0.548 | 26.7    | B    | <5x*B           | 26.7                     | 13.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0865            | 0.346 | 210     | --   |                 | 210.0                    | 210.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-77              | 1.77              | 7.08  | 127     | --   |                 | 127.0                    | 127.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 1.53              | 6.12  | 4.6     | J    |                 | 4.6                      | 1.2    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 14.4              | 57.6  | 2000    | CJ   |                 | 2000.0                   | 1000.0 | 0.0001         | 0.2                   | 0.1   | 3.0%                 | 1.8%  |
| PCB-114             | 14.1              | 56.4  | 108     | --   |                 | 108.0                    | 108.0  | 0.0005         | 0.1                   | 0.1   | 0.8%                 | 1.0%  |
| PCB-118             | 11.6              | 46.4  | 4760    | CJ   |                 | 4760.0                   | 2380.0 | 0.0001         | 0.5                   | 0.2   | 7.1%                 | 4.2%  |
| PCB-123             | 12.7              | 50.8  | 83.4    | --   |                 | 83.4                     | 83.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 1.57              | 6.28  | 34.6    | --   |                 | 34.6                     | 34.6   | 0.1            | 3.5                   | 3.5   | 51.5%                | 61.1% |
| PCB-156             | 0.352             | 1.408 | 826     | CJ   |                 | 826.0                    | 413.0  | 0.0005         | 0.4                   | 0.2   | 6.2%                 | 3.6%  |
| PCB-157             | 0.367             | 1.468 | 187     | --   |                 | 187.0                    | 187.0  | 0.0005         | 0.1                   | 0.1   | 1.4%                 | 1.7%  |
| PCB-167             | 0.324             | 1.296 | 310     | J    |                 | 310.0                    | 155.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.388             | 1.552 | 1.63    | --   |                 | 1.6                      | 1.6    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 0.386             | 1.544 | 40.9    | J    |                 | 40.9                     | 20.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.3   | 4.8       | 4.2   | 6.7          | 5.5   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 769               | Fine   | Field   | P-2  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.457             | 1.828  |         | --   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.4%                 |       |
| 2,3,7,8-TCDD        | 0.179             | 0.716  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 7.1%                 |       |
| 1,2,3,7,8-PeCDF     | 0.133             | 0.532  | 0.345   | --   |                 | 0.3                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.1%                 | 1.0%  |
| 2,3,4,7,8-PeCDF     | 0.116             | 0.464  | 0.277   | --   |                 | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 10.7%                | 5.2%  |
| 1,2,3,7,8-PeCDD     | 0.185             | 0.74   | 0.342   | --   |                 | 0.3                      | 0.2   | 1              | 0.3                   | 0.2   | 21.3%                | 20.9% |
| 1,2,3,4,7,8-HxCDF   | 0.234             | 0.936  | 0.986   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 7.1%                 | 10.5% |
| 1,2,3,6,7,8-HxCDF   | 0.202             | 0.808  | 0.834   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 8.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.257             | 1.028  | 0.62    | B    | <5x*B           | 0.6                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.3%                 | 2.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.308             | 1.232  | 0.623   | B    | <5x*B           | 0.6                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.3%                 | 2.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.117             | 0.468  | 0.264   | --   |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.1               | 0.4    | 0.597   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.1               | 0.4    | 0.629   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.425             | 1.7    | 5.19    | --   |                 | 5.2                      | 5.2   | 0.01           | 0.1                   | 0.1   | 3.7%                 | 5.4%  |
| 1,2,3,4,7,8,9-HpCDF | 1.66              | 6.64   |         | E    | <5x*B           | 0.8                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.101             | 0.404  | 5.64    | --   |                 | 5.6                      | 5.6   | 0.01           | 0.1                   | 0.1   | 4.0%                 | 5.9%  |
| OCDF                | 0.0989            | 0.3956 | 36      | --   |                 | 36.0                     | 36.0  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| OCDD                | 0.142             | 0.568  | 40.6    | --   |                 | 40.6                     | 40.6  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-77              | 0.214             | 0.856  | 10.8    | B    | <5x*B           | 10.8                     | 5.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.241             | 0.964  | 1.01    | J    |                 | 1.0                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.479             | 1.916  | 57.8    | BJ   | <5x*B           | 57.8                     | 28.9  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 0.469             | 1.876  | 2.91    | B    | <5x*B           | 2.9                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.427             | 1.708  | 135     | BJ   | <5x*B           | 135.0                    | 67.5  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.7%  |
| PCB-123             | 0.467             | 1.868  | 2.44    | B    | <5x*B           | 2.4                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.207             | 0.828  | 2.12    | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 14.9%                | 22.0% |
| PCB-156             | 0.103             | 0.412  | 20      | B    | <5x*B           | 20.0                     | 10.0  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 0.107             | 0.428  | 5.11    | B    | <5x*B           | 5.1                      | 2.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.0946            | 0.3784 | 8.82    | BJ   | <5x*B           | 8.8                      | 4.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0699            | 0.2796 | 0.336   | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-189             | 0.0753            | 0.3012 | 1.61    | BJ   | <5x*B           | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.9   | 0.2       | 0.2   | 1.6          | 1.1   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 819               | Fine  | Field   | P-3   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.655             | 2.62  | 11.3    | NJ    |                 | 5.7                      |       | 0.1            | 0.6                   |       | 3.4%                 |       |
| 2,3,7,8-TCDD        | 0.175             | 0.7   | 1.03    | --    |                 | 1.0                      | 1.0   | 1              | 1.0                   | 1.0   | 6.0%                 | 6.5%  |
| 1,2,3,7,8-PeCDF     | 1.55              | 6.2   | 12.4    | --    |                 | 12.4                     | 12.4  | 0.05           | 0.6                   | 0.6   | 3.7%                 | 4.0%  |
| 2,3,4,7,8-PeCDF     | 1.4               | 5.6   | 6.31    | --    |                 | 6.3                      | 6.3   | 0.5            | 3.2                   | 3.2   | 18.8%                | 20.6% |
| 1,2,3,7,8-PeCDD     | 0.188             | 0.752 | 1.28    | --    |                 | 1.3                      | 1.3   | 1              | 1.3                   | 1.3   | 7.8%                 | 8.5%  |
| 1,2,3,4,7,8-HxCDF   | 2.13              | 8.52  | 23.4    | --    |                 | 23.4                     | 23.4  | 0.1            | 2.3                   | 2.3   | 14.0%                | 15.3% |
| 1,2,3,6,7,8-HxCDF   | 1.9               | 7.6   | 13.1    | --    |                 | 13.1                     | 13.1  | 0.1            | 1.3                   | 1.3   | 7.8%                 | 8.5%  |
| 2,3,4,6,7,8-HxCDF   | 2.39              | 9.56  | 7.27    | --    |                 | 7.3                      | 3.6   | 0.1            | 0.7                   | 0.4   | 4.4%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDF   | 2.81              | 11.24 | 5.14    | --    |                 | 5.1                      | 2.6   | 0.1            | 0.5                   | 0.3   | 3.0%                 | 1.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.526             | 2.104 | 1.7     | --    |                 | 1.7                      | 0.9   | 0.1            | 0.2                   | 0.1   | 1.0%                 | 0.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.441             | 1.764 | 2.51    | --    |                 | 2.5                      | 2.5   | 0.1            | 0.3                   | 0.3   | 1.5%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.445             | 1.78  | 2.66    | --    |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 1.6%                 | 1.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.26              | 1.04  | 61.6    | --    |                 | 61.6                     | 61.6  | 0.01           | 0.6                   | 0.6   | 3.7%                 | 4.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.458             | 1.832 | 19.4    | --    |                 | 19.4                     | 19.4  | 0.01           | 0.2                   | 0.2   | 1.2%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.283             | 1.132 | 44.8    | --    |                 | 44.8                     | 44.8  | 0.01           | 0.4                   | 0.4   | 2.7%                 | 2.9%  |
| OCDF                | 0.261             | 1.044 | 286     | --    |                 | 286.0                    | 286.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.297             | 1.188 | 277     | --    |                 | 277.0                    | 277.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 0.49              | 1.96  | 166     | --    |                 | 166.0                    | 166.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.526             | 2.104 | 6.44    | J     |                 | 6.4                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.7               | 22.8  | 940     | CJ    |                 | 940.0                    | 470.0 | 0.0001         | 0.1                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-114             | 79.3              | 317.2 | E       | <5x*B |                 | 39.7                     |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 5.26              | 21.04 | 1990    | CJ    |                 | 1990.0                   | 995.0 | 0.0001         | 0.2                   | 0.1   | 1.2%                 | 0.6%  |
| PCB-123             | 84.8              | 339.2 | E       | <5x*B |                 | 42.4                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.314             | 1.256 | 27.2    | --    |                 | 27.2                     | 27.2  | 0.1            | 2.7                   | 2.7   | 16.2%                | 17.7% |
| PCB-156             | 1.65              | 6.6   | 145     | --    |                 | 145.0                    | 145.0 | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| PCB-157             | 1.72              | 6.88  | 126     | --    |                 | 126.0                    | 126.0 | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| PCB-167             | 1.52              | 6.08  | 264     | J     |                 | 264.0                    | 132.0 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.251             | 1.004 | 3.77    | --    |                 | 3.8                      | 3.8   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 1.75              | 7     | 45      | J     |                 | 45.0                     | 22.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 13.5              | 12.3  | 3.2       | 3.0   | 16.7         | 15.3  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 157               | Fine   | Field   | P-4  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.399             | 1.596  | 5.58    | NJ   |                 | 2.8                      |       | 0.1            | 0.3                   |       | 1.8%                 |       |
| 2,3,7,8-TCDD        | 0.233             | 0.932  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 0.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.145             | 0.58   | 6.98    | --   |                 | 7.0                      | 7.0   | 0.05           | 0.4                   | 0.4   | 2.3%                 | 2.4%  |
| 2,3,4,7,8-PeCDF     | 0.132             | 0.528  | 4.48    | --   |                 | 4.5                      | 4.5   | 0.5            | 2.3                   | 2.3   | 14.6%                | 15.2% |
| 1,2,3,7,8-PeCDD     | 0.0822            | 0.3288 | 1.87    | --   |                 | 1.9                      | 1.9   | 1              | 1.9                   | 1.9   | 12.3%                | 12.8% |
| 1,2,3,4,7,8-HxCDF   | 0.417             | 1.668  | 10      | --   |                 | 10.0                     | 10.0  | 0.1            | 1.0                   | 1.0   | 6.5%                 | 6.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.341             | 1.364  | 7.81    | --   |                 | 7.8                      | 7.8   | 0.1            | 0.8                   | 0.8   | 5.1%                 | 5.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.429             | 1.716  | 8.22    | --   |                 | 8.2                      | 8.2   | 0.1            | 0.8                   | 0.8   | 5.3%                 | 5.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.485             | 1.94   | 2.09    | B    | <5x*B           | 2.1                      | 1.0   | 0.1            | 0.2                   | 0.1   | 1.4%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.165             | 0.66   | 3.38    | --   |                 | 3.4                      | 3.4   | 0.1            | 0.3                   | 0.3   | 2.2%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.14              | 0.56   | 7.97    | --   |                 | 8.0                      | 8.0   | 0.1            | 0.8                   | 0.8   | 5.2%                 | 5.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.142             | 0.568  | 6.72    | --   |                 | 6.7                      | 6.7   | 0.1            | 0.7                   | 0.7   | 4.3%                 | 4.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.298             | 1.192  | 98.3    | --   |                 | 98.3                     | 98.3  | 0.01           | 1.0                   | 1.0   | 6.4%                 | 6.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.539             | 2.156  | 10.7    | --   |                 | 10.7                     | 10.7  | 0.01           | 0.1                   | 0.1   | 0.7%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 1.37              | 5.48   | 182     | --   |                 | 182.0                    | 182.0 | 0.01           | 1.8                   | 1.8   | 11.8%                | 12.3% |
| OCDF                | 0.00818           | 0.0327 | 216     | --   |                 | 216.0                    | 216.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0132            | 0.0528 | 956     | --   |                 | 956.0                    | 956.0 | 0.0001         | 0.1                   | 0.1   | 0.6%                 | 0.6%  |
| PCB-77              | 0.374             | 1.496  | 98.4    | --   |                 | 98.4                     | 98.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.539             | 2.156  | 2.75    | J    |                 | 2.8                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 8.63              | 34.52  | 710     | CJ   |                 | 710.0                    | 355.0 | 0.0001         | 0.1                   | 0.0   | 0.5%                 | 0.2%  |
| PCB-114             | 8.45              | 33.8   | 30.3    | --   |                 | 30.3                     | 15.2  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 6.86              | 27.44  | 1430    | CJ   |                 | 1430.0                   | 715.0 | 0.0001         | 0.1                   | 0.1   | 0.9%                 | 0.5%  |
| PCB-123             | 7.51              | 30.04  | 26.6    | --   |                 | 26.6                     | 13.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.41              | 5.64   | 24.6    | --   |                 | 24.6                     | 24.6  | 0.1            | 2.5                   | 2.5   | 15.9%                | 16.6% |
| PCB-156             | 0.555             | 2.22   | 273     | --   |                 | 273.0                    | 273.0 | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 0.9%  |
| PCB-157             | 0.578             | 2.312  | 78      | --   |                 | 78.0                     | 78.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.51              | 2.04   | 152     | J    |                 | 152.0                    | 76.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.96              | 3.84   | 2.83    | --   |                 | 2.8                      | 1.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.594             | 2.376  | 37.1    | J    |                 | 37.1                     | 18.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 12.6              | 12.1  | 2.8       | 2.7   | 15.4         | 14.8  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 273               | Fine  | Field   | P-5  | Replaced 'S' in result column with 10x the QL for PCB-118. |                          |        |          |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|--|--------------------------|--------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found  | Adjusted Concentrations* |        | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |  | Full                     | Quant  |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.37              | 1.48  | 8.56    | NJ   |  | 4.3                      |        | 0.1      | 0.4                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.366             | 1.464 |         | E    |  | 0.2                      |        | 1        | 0.2                   |       | 0.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.2               | 0.8   | 6.85    | --   |  | 6.9                      | 6.9    | 0.05     | 0.3                   | 0.3   | 0.7%                 | 1.2%  |
| 2,3,4,7,8-PeCDF     | 0.184             | 0.736 | 5.43    | --   |  | 5.4                      | 5.4    | 0.5      | 2.7                   | 2.7   | 5.5%                 | 9.2%  |
| 1,2,3,7,8-PeCDD     | 0.176             | 0.704 | 1.77    | --   |  | 1.8                      | 1.8    | 1        | 1.8                   | 1.8   | 3.7%                 | 6.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.327             | 1.308 | 13.1    | --   |  | 13.1                     | 13.1   | 0.1      | 1.3                   | 1.3   | 2.7%                 | 4.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.291             | 1.164 | 8.26    | --   |  | 8.3                      | 8.3    | 0.1      | 0.8                   | 0.8   | 1.7%                 | 2.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.374             | 1.496 | 5.23    | --   |  | 5.2                      | 5.2    | 0.1      | 0.5                   | 0.5   | 1.1%                 | 1.8%  |
| 1,2,3,7,8,9-HxCDF   | 2.63              | 10.52 |         | E    | <5x*B  | 1.3                      |        | 0.1      | 0.1                   |       | 0.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.493             | 1.972 | 2.95    | --   |  | 3.0                      | 3.0    | 0.1      | 0.3                   | 0.3   | 0.6%                 | 1.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.457             | 1.828 | 5.39    | --   |  | 5.4                      | 5.4    | 0.1      | 0.5                   | 0.5   | 1.1%                 | 1.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.447             | 1.788 | 3.54    | --   |  | 3.5                      | 3.5    | 0.1      | 0.4                   | 0.4   | 0.7%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.22              | 0.88  | 50.7    | --   |  | 50.7                     | 50.7   | 0.01     | 0.5                   | 0.5   | 1.0%                 | 1.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.496             | 1.984 | 12.3    | --   |  | 12.3                     | 12.3   | 0.01     | 0.1                   | 0.1   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 1.18              | 4.72  | 123     | --   |  | 123.0                    | 123.0  | 0.01     | 1.2                   | 1.2   | 2.5%                 | 4.2%  |
| OCDF                | 0.126             | 0.504 | 186     | --   |  | 186.0                    | 186.0  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.151             | 0.604 | 747     | --   |  | 747.0                    | 747.0  | 0.0001   | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| PCB-77              | 6.59              | 26.36 | 1780    | CJ   |  | 1780.0                   | 890.0  | 0.0001   | 0.2                   | 0.1   | 0.4%                 | 0.3%  |
| PCB-81              | 6.05              | 24.2  | 42      | J    |  | 42.0                     | 21.0   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 146               | 584   | 14300   | SJ   |  | 14300.0                  | 7150.0 | 0.0001   | 1.4                   | 0.7   | 2.9%                 | 2.4%  |
| PCB-114             | 143               | 572   | 773     | CJ   |  | 773.0                    | 386.5  | 0.0005   | 0.4                   | 0.2   | 0.8%                 | 0.7%  |
| PCB-118             | 115               | 460   | 4600    | SJ   | <5x*B  | 57.5                     |        | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-123             | 126               | 504   | 921     | CJ   |  | 921.0                    | 460.5  | 0.0001   | 0.1                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-126             | 48                | 192   | 311     | CJ   |  | 311.0                    | 155.5  | 0.1      | 31.1                  | 15.6  | 63.7%                | 52.8% |
| PCB-156             | 7.51              | 30.04 | 6300    | CJ   |  | 6300.0                   | 3150.0 | 0.0005   | 3.2                   | 1.6   | 6.4%                 | 5.3%  |
| PCB-157             | 7.81              | 31.24 | 1540    | CJ   |  | 1540.0                   | 770.0  | 0.0005   | 0.8                   | 0.4   | 1.6%                 | 1.3%  |
| PCB-167             | 6.9               | 27.6  | 2700    | CJ   |  | 2700.0                   | 1350.0 | 0.00001  | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-169             | 2.85              | 11.4  | 21.2    | --   |  | 21.2                     | 21.2   | 0.01     | 0.2                   | 0.2   | 0.4%                 | 0.7%  |
| PCB-189             | 6.04              | 24.16 | 827     | CJ   |  | 827.0                    | 413.5  | 0.0001   | 0.1                   | 0.0   | 0.2%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 11.2              | 10.5  | 37.5      | 18.8  | 48.7         | 29.3  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 839               | Fine   | Field   | P-6  |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.614             | 2.456  | 0.311   | NJ   |                 | 0.2                      |        | 0.1            | 0.0                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0985            | 0.394  |         | --   |                 | 0.0                      |        | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0738            | 0.2952 | 1.26    | --   |                 | 1.3                      | 1.3    | 0.05           | 0.1                   | 0.1   | 0.6%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.0684            | 0.2736 | 1.09    | --   |                 | 1.1                      | 1.1    | 0.5            | 0.6                   | 0.6   | 5.2%                 | 5.3%  |
| 1,2,3,7,8-PeCDD     | 0.00685           | 0.0274 | 1.86    | --   |                 | 1.9                      | 1.9    | 1              | 1.9                   | 1.9   | 18.1%                | 18.4% |
| 1,2,3,4,7,8-HxCDF   | 0.344             | 1.376  | 6.92    | --   |                 | 6.9                      | 6.9    | 0.1            | 0.7                   | 0.7   | 6.6%                 | 6.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.445             | 1.78   | 3.14    | --   |                 | 3.1                      | 3.1    | 0.1            | 0.3                   | 0.3   | 3.0%                 | 3.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.566             | 2.264  | 4.5     | --   |                 | 4.5                      | 4.5    | 0.1            | 0.5                   | 0.5   | 4.3%                 | 4.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.663             | 2.652  | 1.29    | B    | <5x*B           | 1.3                      | 0.3    | 0.1            | 0.1                   | 0.0   | 1.2%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0919            | 0.3676 | 3.45    | --   |                 | 3.5                      | 3.5    | 0.1            | 0.4                   | 0.4   | 3.3%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0798            | 0.3192 | 7.9     | --   |                 | 7.9                      | 7.9    | 0.1            | 0.8                   | 0.8   | 7.5%                 | 7.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0802            | 0.3208 | 6.87    | --   |                 | 6.9                      | 6.9    | 0.1            | 0.7                   | 0.7   | 6.6%                 | 6.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.212             | 0.848  | 70      | --   |                 | 70.0                     | 70.0   | 0.01           | 0.7                   | 0.7   | 6.7%                 | 6.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.36              | 1.44   | 6.86    | --   |                 | 6.9                      | 6.9    | 0.01           | 0.1                   | 0.1   | 0.7%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 2.29              | 9.16   | 264     | --   |                 | 264.0                    | 264.0  | 0.01           | 2.6                   | 2.6   | 25.2%                | 25.6% |
| OCDF                | 0.0619            | 0.2476 | 243     | --   |                 | 243.0                    | 243.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0102            | 0.0408 | 2190    | --   |                 | 2190.0                   | 2190.0 | 0.0001         | 0.2                   | 0.2   | 2.1%                 | 2.1%  |
| PCB-77              | 0.455             | 1.82   | 51.8    | --   |                 | 51.8                     | 51.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.39              | 1.56   | 2.21    | J    |                 | 2.2                      | 1.1    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.73              | 6.92   | 376     | J    |                 | 376.0                    | 188.0  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-114             | 1.69              | 6.76   | 23      | --   |                 | 23.0                     | 23.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.49              | 5.96   | 669     | CJ   |                 | 669.0                    | 334.5  | 0.0001         | 0.1                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-123             | 1.63              | 6.52   | 16.7    | --   |                 | 16.7                     | 16.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.14              | 4.56   | 7.03    | --   |                 | 7.0                      | 7.0    | 0.1            | 0.7                   | 0.7   | 6.7%                 | 6.8%  |
| PCB-156             | 0.612             | 2.448  | 89.3    | --   |                 | 89.3                     | 89.3   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-157             | 0.637             | 2.548  | 27.4    | --   |                 | 27.4                     | 27.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.563             | 2.252  | 41.6    | J    |                 | 41.6                     | 20.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.335             | 1.34   | 0.498   | --   |                 | 0.5                      | 0.2    | 0.01           | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-189             | 0.687             | 2.748  | 7.01    | J    |                 | 7.0                      | 3.5    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.7               | 9.6   | 0.8       | 0.7   | 10.5         | 10.3  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 270               | Fine   | Field   | P-7  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.4               | 5.6    | 0.47    | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |
| 2,3,7,8-TCDD        | 0.108             | 0.432  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 5.2%                 |       |
| 1,2,3,7,8-PeCDF     | 0.19              | 0.76   | 0.604   | --   |                 | 0.6                      | 0.3   | 0.05           | 0.0                   | 0.0   | 1.6%                 | 1.0%  |
| 2,3,4,7,8-PeCDF     | 0.179             | 0.716  | 0.533   | --   |                 | 0.5                      | 0.3   | 0.5            | 0.3                   | 0.2   | 13.0%                | 10.1% |
| 1,2,3,7,8-PeCDD     | 0.0877            | 0.3508 | 0.523   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 26.0%                | 33.5% |
| 1,2,3,4,7,8-HxCDF   | 0.202             | 0.808  | 0.995   | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 5.2%                 | 6.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.84              | 3.36   |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.451             | 1.804  | 0.528   | B    | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.6%                 | 0.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.547             | 2.188  |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.194             | 0.776  | 0.569   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.169             | 0.676  | 1.17    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 6.2%                 | 8.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.171             | 0.684  | 0.774   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 5.4%  |
| 1,2,3,4,6,7,8-HpCDF | 4.55              | 18.2   |         | D    |                 | 1.1                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 1.15              | 4.6    | 1.17    | B    | <5x*B           | 1.2                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.406             | 1.624  | 14.5    | --   |                 | 14.5                     | 14.5  | 0.01           | 0.1                   | 0.1   | 7.5%                 | 9.7%  |
| OCDF                | 0.022             | 0.088  | 18.7    | B    | <5x*B           | 18.7                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.509             | 2.036  | 81.6    | --   |                 | 81.6                     | 81.6  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 0.425             | 1.7    | 17.4    | --   |                 | 17.4                     | 17.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.364             | 1.456  | 0.773   | J    |                 | 0.8                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.164             | 0.656  | 62.9    | BJ   | <5x*B           | 62.9                     | 31.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.161             | 0.644  | 2.5     | B    | <5x*B           | 2.5                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.15              | 0.6    | 127     | BJ   | <5x*B           | 127.0                    | 63.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-123             | 0.164             | 0.656  | 2.27    | B    | <5x*B           | 2.3                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.717             | 2.868  | 3.05    | --   |                 | 3.1                      | 3.1   | 0.1            | 0.3                   | 0.3   | 16.1%                | 20.8% |
| PCB-156             | 0.137             | 0.548  | 19.3    | B    | <5x*B           | 19.3                     | 9.7   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 0.142             | 0.568  | 4.48    | B    | <5x*B           | 4.5                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.126             | 0.504  | 9.05    | BJ   | <5x*B           | 9.1                      | 4.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.256             | 1.024  | 0.401   | --   |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 0.0327            | 0.1308 | 3.34    | J    |                 | 3.3                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.1   | 0.3       | 0.3   | 1.8          | 1.4   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 237               | Fine   | Field   | P-8  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.365             | 1.46   | 1.73    | NJ   |                 | 0.9                      |       | 0.1            | 0.1                   |       | 1.5%                 |       |
| 2,3,7,8-TCDD        | 0.102             | 0.408  | 0.192   | --   |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 3.4%                 | 1.8%  |
| 1,2,3,7,8-PeCDF     | 0.128             | 0.512  | 3.92    | --   |                 | 3.9                      | 3.9   | 0.05           | 0.2                   | 0.2   | 3.3%                 | 3.5%  |
| 2,3,4,7,8-PeCDF     | 0.114             | 0.456  | 1.23    | --   |                 | 1.2                      | 1.2   | 0.5            | 0.6                   | 0.6   | 10.2%                | 10.9% |
| 1,2,3,7,8-PeCDD     | 0.104             | 0.416  | 0.527   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 8.5%                 | 9.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.0728            | 0.2912 | 5.89    | --   |                 | 5.9                      | 5.9   | 0.1            | 0.6                   | 0.6   | 10.0%                | 10.7% |
| 1,2,3,6,7,8-HxCDF   | 0.0754            | 0.3016 | 3.75    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 6.4%                 | 6.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.0927            | 0.3708 | 2.18    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 3.7%                 | 4.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.111             | 0.444  | 1.52    | B    | <5x*B           | 1.5                      | 0.8   | 0.1            | 0.2                   | 0.1   | 2.5%                 | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.573             | 2.292  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.1               | 0.4    | 1.04    | --   |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 1.7%                 | 1.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.1               | 0.4    | 0.821   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 1.4%                 | 1.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.184             | 0.736  | 17.5    | --   |                 | 17.5                     | 17.5  | 0.01           | 0.2                   | 0.2   | 3.0%                 | 3.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.375             | 1.5    | 7.25    | --   |                 | 7.3                      | 7.3   | 0.01           | 0.1                   | 0.1   | 1.2%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.286             | 1.144  | 15.4    | --   |                 | 15.4                     | 15.4  | 0.01           | 0.2                   | 0.2   | 2.6%                 | 2.8%  |
| OCDF                | 0.107             | 0.428  | 126     | --   |                 | 126.0                    | 126.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.0828            | 0.3312 | 105     | --   |                 | 105.0                    | 105.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 0.47              | 1.88   | 95.1    | --   |                 | 95.1                     | 95.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.419             | 1.676  | 3.27    | J    |                 | 3.3                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.31              | 13.24  | 670     | CJ   |                 | 670.0                    | 335.0 | 0.0001         | 0.1                   | 0.0   | 1.1%                 | 0.6%  |
| PCB-114             | 3.24              | 12.96  | 23.9    | --   |                 | 23.9                     | 23.9  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 2.7               | 10.8   | 1290    | CJ   |                 | 1290.0                   | 645.0 | 0.0001         | 0.1                   | 0.1   | 2.2%                 | 1.2%  |
| PCB-123             | 2.96              | 11.84  | 20.7    | --   |                 | 20.7                     | 20.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.697             | 2.788  | 19.9    | --   |                 | 19.9                     | 19.9  | 0.1            | 2.0                   | 2.0   | 33.7%                | 36.1% |
| PCB-156             | 0.482             | 1.928  | 208     | --   |                 | 208.0                    | 208.0 | 0.0005         | 0.1                   | 0.1   | 1.8%                 | 1.9%  |
| PCB-157             | 0.501             | 2.004  | 55.5    | --   |                 | 55.5                     | 55.5  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-167             | 0.443             | 1.772  | 93.7    | J    |                 | 93.7                     | 46.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.1               | 4.4    |         | E    |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.39              | 1.56   | 13.7    | J    |                 | 13.7                     | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.7               | 3.4   | 2.3       | 2.2   | 6.0          | 5.6   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 404               | Fine  | Field   | P-9   |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.201             | 0.804 | 3.02    | NJ    |                 | 1.5                      |       | 0.1            | 0.2                   |       | 2.1%                 |       |
| 2,3,7,8-TCDD        | 0.215             | 0.86  | 0.156   | --    |                 | 0.1                      |       | 1              | 0.1                   |       | 1.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.128             | 0.512 | 6.82    | --    |                 | 6.8                      | 6.8   | 0.05           | 0.3                   | 0.3   | 4.7%                 | 5.4%  |
| 2,3,4,7,8-PeCDF     | 0.12              | 0.48  | 2.34    | --    |                 | 2.3                      | 2.3   | 0.5            | 1.2                   | 1.2   | 16.0%                | 18.1% |
| 1,2,3,7,8-PeCDD     | 0.2               | 0.8   | 0.637   | --    |                 | 0.6                      | 0.3   | 1              | 0.6                   | 0.3   | 8.3%                 | 4.7%  |
| 1,2,3,4,7,8-HxCDF   | 0.633             | 2.532 | 10.8    | --    |                 | 10.8                     | 10.8  | 0.1            | 1.1                   | 1.1   | 15.0%                | 17.0% |
| 1,2,3,6,7,8-HxCDF   | 0.543             | 2.172 | 6.01    | --    |                 | 6.0                      | 6.0   | 0.1            | 0.6                   | 0.6   | 8.3%                 | 9.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.672             | 2.688 | 3.24    | --    |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 4.4%                 | 5.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.848             | 3.392 | 2.53    | B     | <5x*B           | 2.5                      | 0.6   | 0.1            | 0.3                   | 0.1   | 3.5%                 | 0.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.198             | 0.792 | 0.763   | --    |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.165             | 0.66  | 1.04    | --    |                 | 1.0                      | 1.0   | 0.1            | 0.1                   | 0.1   | 1.4%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.17              | 0.68  | 0.889   | --    |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 1.3%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.304             | 1.216 | 28.2    | --    |                 | 28.2                     | 28.2  | 0.01           | 0.3                   | 0.3   | 3.9%                 | 4.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.601             | 2.404 | 11      | --    |                 | 11.0                     | 11.0  | 0.01           | 0.1                   | 0.1   | 1.5%                 | 1.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.259             | 1.036 | 14.1    | --    |                 | 14.1                     | 14.1  | 0.01           | 0.1                   | 0.1   | 2.0%                 | 2.2%  |
| OCDF                | 0.134             | 0.536 | 156     | --    |                 | 156.0                    | 156.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.155             | 0.62  | 103     | --    |                 | 103.0                    | 103.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 0.576             | 2.304 | 88.9    | --    |                 | 88.9                     | 88.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.477             | 1.908 | 4.24    | J     |                 | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.67              | 22.68 | 457     | J     |                 | 457.0                    | 228.5 | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 18.7              | 74.8  | E       | <5x*B |                 | 9.4                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 4.91              | 19.64 | 934     | CJ    |                 | 934.0                    | 467.0 | 0.0001         | 0.1                   | 0.0   | 1.3%                 | 0.7%  |
| PCB-123             | 5.37              | 21.48 | 36.1    | --    |                 | 36.1                     | 36.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 0.909             | 3.636 | 15.2    | --    |                 | 15.2                     | 15.2  | 0.1            | 1.5                   | 1.5   | 21.1%                | 24.0% |
| PCB-156             | 1.76              | 7.04  | 133     | --    |                 | 133.0                    | 133.0 | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-157             | 1.83              | 7.32  | 37.6    | --    |                 | 37.6                     | 37.6  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 1.62              | 6.48  | 60.1    | J     |                 | 60.1                     | 30.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.328             | 1.312 | 1.51    | --    |                 | 1.5                      | 1.5   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 2.35              | 9.4   | 12.8    | J     |                 | 12.8                     | 6.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.5               | 4.6   | 1.7       | 1.6   | 7.2          | 6.2   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 299               | Fine   | Field   | SP-1 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.277             | 1.108  | 0.902   | NJ   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.229             | 0.916  | 0.879   | --   |                 | 0.9                      | 0.4   | 1              | 0.9                   | 0.4   | 15.9%                | 10.8% |
| 1,2,3,7,8-PeCDF     | 0.361             | 1.444  | 3.59    | --   |                 | 3.6                      | 3.6   | 0.05           | 0.2                   | 0.2   | 3.2%                 | 4.9%  |
| 2,3,4,7,8-PeCDF     | 0.326             | 1.304  | 1.05    | --   |                 | 1.1                      | 0.5   | 0.5            | 0.6                   | 0.3   | 9.7%                 | 6.8%  |
| 1,2,3,7,8-PeCDD     | 0.299             | 1.196  | 0.765   | B    | <5x*B           | 0.8                      | 0.2   | 1              | 0.8                   | 0.2   | 14.2%                | 5.4%  |
| 1,2,3,4,7,8-HxCDF   | 0.928             | 3.712  | 6.94    | --   |                 | 6.9                      | 6.9   | 0.1            | 0.7                   | 0.7   | 12.2%                | 18.7% |
| 1,2,3,6,7,8-HxCDF   | 0.83              | 3.32   | 3.87    | --   |                 | 3.9                      | 3.9   | 0.1            | 0.4                   | 0.4   | 6.9%                 | 10.6% |
| 2,3,4,6,7,8-HxCDF   | 1.1               | 4.4    | 2.03    | --   |                 | 2.0                      | 1.0   | 0.1            | 0.2                   | 0.1   | 3.5%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 1.68              | 6.72   | 1.71    | B    | <5x*B           | 1.7                      | 0.4   | 0.1            | 0.2                   | 0.0   | 3.0%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.235             | 0.94   | 0.613   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.1%                 | 0.8%  |
| 1,2,3,6,7,8-HxCDD   | 1.04              | 4.16   |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.9%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.205             | 0.82   | 0.726   | J    |                 | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 1.2%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDF | 16.9              | 67.6   |         | D    | <5x*B           | 4.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.218             | 0.872  | 6.68    | --   |                 | 6.7                      | 6.7   | 0.01           | 0.1                   | 0.1   | 1.2%                 | 1.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0667            | 0.2668 | 22.1    | --   |                 | 22.1                     | 22.1  | 0.01           | 0.2                   | 0.2   | 3.9%                 | 6.0%  |
| OCDF                | 0.134             | 0.536  | 97.5    | --   |                 | 97.5                     | 97.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.0921            | 0.3684 | 167     | --   |                 | 167.0                    | 167.0 | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-77              | 1.06              | 4.24   | 61.3    | J    |                 | 61.3                     | 30.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 1.15              | 4.6    | 2.12    | J    |                 | 2.1                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 7.55              | 30.2   | 374     | --   |                 | 374.0                    | 374.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-114             | 7.36              | 29.44  | 19.5    | --   |                 | 19.5                     | 9.8   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 6.01              | 24.04  | 815     | CJ   |                 | 815.0                    | 407.5 | 0.0001         | 0.1                   | 0.0   | 1.4%                 | 1.1%  |
| PCB-123             | 6.36              | 25.44  |         | --   | <5x*B           | 3.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.634             | 2.536  | 9.5     | --   |                 | 9.5                      | 9.5   | 0.1            | 1.0                   | 1.0   | 16.8%                | 25.7% |
| PCB-156             | 2.96              | 11.84  | 125     | J    |                 | 125.0                    | 62.5  | 0.0005         | 0.1                   | 0.0   | 1.1%                 | 0.8%  |
| PCB-157             | 3.15              | 12.6   | 32.1    | J    |                 | 32.1                     | 16.1  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 2.95              | 11.8   | 59.3    | J    |                 | 59.3                     | 29.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.879             | 3.516  | 1.24    | J    |                 | 1.2                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 2.4               | 9.6    | 13      | J    |                 | 13.0                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.7               | 2.6   | 1.2       | 1.0   | 5.9          | 3.6   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID 571       | Fine              | Field  | SP-10   |      |                 |                          |       |                |                       |       |                      |       |       |       |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full  |
| 2,3,7,8-TCDF        | 0.703             | 2.812  | 0.745   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       |                      |       | 1.2%  |       |       |
| 2,3,7,8-TCDD        | 0.152             | 0.608  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 3.0%  |       |       |
| 1,2,3,7,8-PeCDF     | 0.214             | 0.856  | 3.74    | --   |                 | 3.7                      | 3.7   | 0.05           | 0.2                   | 0.2   |                      |       | 5.5%  |       | 7.0%  |
| 2,3,4,7,8-PeCDF     | 0.173             | 0.692  | 0.82    | --   |                 | 0.8                      | 0.8   | 0.5            | 0.4                   | 0.4   |                      |       | 12.0% |       | 15.2% |
| 1,2,3,7,8-PeCDD     | 0.377             | 1.508  |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       |                      |       | 6.0%  |       |       |
| 1,2,3,4,7,8-HxCDF   | 0.61              | 2.44   | 7.36    | --   |                 | 7.4                      | 7.4   | 0.1            | 0.7                   | 0.7   |                      |       | 22.2% |       | 28.2% |
| 1,2,3,6,7,8-HxCDF   | 0.524             | 2.096  | 3.95    | --   |                 | 4.0                      | 4.0   | 0.1            | 0.4                   | 0.4   |                      |       | 12.0% |       | 15.2% |
| 2,3,4,6,7,8-HxCDF   | 0.741             | 2.964  | 1.93    | --   |                 | 1.9                      | 1.0   | 0.1            | 0.2                   | 0.1   |                      |       | 5.7%  |       | 3.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.962             | 3.848  | 1.73    | B    | <5x*B           | 1.7                      | 0.4   | 0.1            | 0.2                   | 0.0   |                      |       | 5.1%  |       | 1.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.175             | 0.7    | 0.405   | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      |       | 1.2%  |       | 0.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.148             | 0.592  | 0.758   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   |                      |       | 2.4%  |       | 3.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.148             | 0.592  | 0.853   | J    |                 | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   |                      |       | 2.7%  |       | 1.5%  |
| 1,2,3,4,6,7,8-HpCDF | 19.5              | 78     |         | D    | <5x*B           | 4.9                      |       | 0.01           | 0.0                   |       |                      |       | 1.5%  |       |       |
| 1,2,3,4,7,8,9-HpCDF | 0.139             | 0.556  | 8.26    | --   |                 | 8.3                      | 8.3   | 0.01           | 0.1                   | 0.1   |                      |       | 2.5%  |       | 3.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0932            | 0.3728 | 11.3    | --   |                 | 11.3                     | 11.3  | 0.01           | 0.1                   | 0.1   |                      |       | 3.4%  |       | 4.3%  |
| OCDF                | 0.149             | 0.596  | 135     | --   |                 | 135.0                    | 135.0 | 0.0001         | 0.0                   | 0.0   |                      |       | 0.4%  |       | 0.5%  |
| OCDD                | 0.0721            | 0.2884 | 102     | --   |                 | 102.0                    | 102.0 | 0.0001         | 0.0                   | 0.0   |                      |       | 0.3%  |       | 0.4%  |
| PCB-77              | 0.81              | 3.24   | 30.1    | BJ   | <5x*B           | 30.1                     | 15.1  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.1%  |       | 0.1%  |
| PCB-81              | 1.07              | 4.28   | 1.43    | J    |                 | 1.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  |       | 0.0%  |
| PCB-105             | 2.97              | 11.88  | 85.5    | B    | <5x*B           | 85.5                     | 42.8  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.3%  |       | 0.2%  |
| PCB-114             | 2.9               | 11.6   | 3.55    | B    | <5x*B           | 3.6                      | 0.9   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.1%  |       | 0.0%  |
| PCB-118             | 2.39              | 9.56   | 150     | BJ   | <5x*B           | 150.0                    | 75.0  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.4%  |       | 0.3%  |
| PCB-123             | 2.53              | 10.12  |         | --   | <5x*B           | 1.3                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |       |
| PCB-126             | 0.722             | 2.888  | 3.79    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   |                      |       | 11.4% |       | 14.5% |
| PCB-156             | 2.23              | 8.92   | 22.7    | BJ   | <5x*B           | 22.7                     | 11.4  | 0.0005         | 0.0                   | 0.0   |                      |       | 0.3%  |       | 0.2%  |
| PCB-157             | 2.37              | 9.48   | 7.16    | BJ   | <5x*B           | 7.2                      | 1.8   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.1%  |       | 0.0%  |
| PCB-167             | 2.22              | 8.88   | 14.8    | BJ   | <5x*B           | 14.8                     | 7.4   | 0.00001        | 0.0                   | 0.0   |                      |       | 0.0%  |       | 0.0%  |
| PCB-169             | 0.375             | 1.5    | 0.674   | J    |                 | 0.7                      | 0.2   | 0.01           | 0.0                   | 0.0   |                      |       | 0.2%  |       | 0.1%  |
| PCB-189             | 5.42              | 21.68  |         | EJ   |                 | 2.7                      |       | 0.0001         | 0.0                   |       |                      |       | 0.0%  |       |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.8               | 2.1   | 0.4       | 0.4   | 3.2          | 2.5   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 461               | Fine  | Field   | SP-11 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.114             | 0.456 | 0.567   | NJ    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.204             | 0.816 |         | --    |                 | 0.1                      |       | 1              | 0.1                   |       | 3.3%                 |       |
| 1,2,3,7,8-PeCDF     | 0.163             | 0.652 | 2.2     | --    |                 | 2.2                      | 2.2   | 0.05           | 0.1                   | 0.1   | 3.7%                 | 4.8%  |
| 2,3,4,7,8-PeCDF     | 0.137             | 0.548 | 0.551   | --    |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 10.0%                | 13.2% |
| 1,2,3,7,8-PeCDD     | 0.205             | 0.82  | 0.342   | B     | <5x*B           | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 10.0%                | 4.4%  |
| 1,2,3,4,7,8-HxCDF   | 0.575             | 2.3   | 3.86    | --    |                 | 3.9                      | 3.9   | 0.1            | 0.4                   | 0.4   | 13.0%                | 17.2% |
| 1,2,3,6,7,8-HxCDF   | 0.508             | 2.032 | 2.27    | --    |                 | 2.3                      | 2.3   | 0.1            | 0.2                   | 0.2   | 7.7%                 | 10.1% |
| 2,3,4,6,7,8-HxCDF   | 0.753             | 3.012 | 1.24    | B     | <5x*B           | 1.2                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDF   | 1.03              | 4.12  | 1.15    | B     | <5x*B           | 1.2                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.207             | 0.828 | 0.463   | --    |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 1.7%                 | 0.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.174             | 0.696 | 0.535   | --    |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.7%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.175             | 0.7   | 0.416   | J     |                 | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDF | 10.7              | 42.8  |         | D     | <5x*B           | 2.7                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.2               | 0.8   | 3.94    | --    |                 | 3.9                      | 3.9   | 0.01           | 0.0                   | 0.0   | 1.3%                 | 1.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.136             | 0.544 | 12.9    | --    |                 | 12.9                     | 12.9  | 0.01           | 0.1                   | 0.1   | 4.3%                 | 5.7%  |
| OCDF                | 0.188             | 0.752 | 73.2    | --    |                 | 73.2                     | 73.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.151             | 0.604 | 112     | --    |                 | 112.0                    | 112.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 0.887             | 3.548 | 38      | J     |                 | 38.0                     | 19.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.985             | 3.94  | 1.31    | J     |                 | 1.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 10.5              | 42    | 446     | --    |                 | 446.0                    | 446.0 | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 2.0%  |
| PCB-114             | 10.2              | 40.8  | 23.4    | --    |                 | 23.4                     | 11.7  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-118             | 8.43              | 33.72 | 986     | CJ    |                 | 986.0                    | 493.0 | 0.0001         | 0.1                   | 0.0   | 3.3%                 | 2.2%  |
| PCB-123             | 8.91              | 35.64 |         | --    | <5x*B           | 4.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.73              | 2.92  | 6.78    | --    |                 | 6.8                      | 6.8   | 0.1            | 0.7                   | 0.7   | 22.6%                | 29.9% |
| PCB-156             | 1.85              | 7.4   | 165     | J     |                 | 165.0                    | 82.5  | 0.0005         | 0.1                   | 0.0   | 2.7%                 | 1.8%  |
| PCB-157             | 1.96              | 7.84  | 35.6    | J     |                 | 35.6                     | 17.8  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-167             | 1.84              | 7.36  | 62.4    | J     |                 | 62.4                     | 31.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.386             | 1.544 | 0.804   | J     |                 | 0.8                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-189             | 1.77              | 7.08  | 17.5    | J     |                 | 17.5                     | 8.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.2   | 0.9       | 0.7   | 2.8          | 1.9   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 692               | Fine   | Field   | SP-12 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0688            | 0.2752 | 0.58    | NJ    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.137             | 0.548  |         | --    |                 | 0.1                      |       | 1              | 0.1                   |       | 2.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.166             | 0.664  | 3.77    | --    |                 | 3.8                      | 3.8   | 0.05           | 0.2                   | 0.2   | 5.2%                 | 6.7%  |
| 2,3,4,7,8-PeCDF     | 0.141             | 0.564  | 0.944   | --    |                 | 0.9                      | 0.9   | 0.5            | 0.5                   | 0.5   | 12.3%                | 15.9% |
| 1,2,3,7,8-PeCDD     | 0.122             | 0.488  | 0.412   | B     | <5x*B           | 0.4                      | 0.1   | 1              | 0.4                   | 0.1   | 10.9%                | 3.5%  |
| 1,2,3,4,7,8-HxCDF   | 0.512             | 2.048  | 6.94    | --    |                 | 6.9                      | 6.9   | 0.1            | 0.7                   | 0.7   | 18.9%                | 24.4% |
| 1,2,3,6,7,8-HxCDF   | 0.456             | 1.824  | 3.87    | --    |                 | 3.9                      | 3.9   | 0.1            | 0.4                   | 0.4   | 10.7%                | 13.8% |
| 2,3,4,6,7,8-HxCDF   | 0.637             | 2.548  | 1.92    | --    |                 | 1.9                      | 1.0   | 0.1            | 0.2                   | 0.1   | 5.2%                 | 3.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.783             | 3.132  | 1.89    | B     | <5x*B           | 1.9                      | 0.5   | 0.1            | 0.2                   | 0.1   | 5.2%                 | 1.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.182             | 0.728  | 0.36    | --    |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.152             | 0.608  | 0.596   | --    |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.6%                 | 1.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.154             | 0.616  | 0.444   | J     |                 | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.1%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDF | 16.2              | 64.8   |         | D     | <5x*B           | 4.1                      |       | 0.01           | 0.0                   |       | 1.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.144             | 0.576  | 8       | --    |                 | 8.0                      | 8.0   | 0.01           | 0.1                   | 0.1   | 2.2%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0915            | 0.366  | 11      | --    |                 | 11.0                     | 11.0  | 0.01           | 0.1                   | 0.1   | 3.0%                 | 3.9%  |
| OCDF                | 0.123             | 0.492  | 139     | --    |                 | 139.0                    | 139.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| OCDD                | 0.0868            | 0.3472 | 90.2    | --    |                 | 90.2                     | 90.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-77              | 0.763             | 3.052  | 24.6    | BJ    | <5x*B           | 24.6                     | 12.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.894             | 3.576  | 1.08    | J     |                 | 1.1                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.87              | 7.48   | 147     | B     | <5x*B           | 147.0                    | 73.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 1.82              | 7.28   | 7.94    | B     | <5x*B           | 7.9                      | 4.0   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.56              | 6.24   | 334     | BJ    | <5x*B           | 334.0                    | 167.0 | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-123             | 1.65              | 6.6    |         | --    | <5x*B           | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.445             | 1.78   | 5.28    | --    |                 | 5.3                      | 5.3   | 0.1            | 0.5                   | 0.5   | 14.5%                | 18.8% |
| PCB-156             | 0.883             | 3.532  | 62.5    | J     |                 | 62.5                     | 31.3  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-157             | 0.939             | 3.756  | 15.7    | BJ    | <5x*B           | 15.7                     | 7.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.879             | 3.516  | 31.2    | BJ    | <5x*B           | 31.2                     | 15.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.329             | 1.316  | 0.811   | J     |                 | 0.8                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 1.41              | 5.64   | 13.1    | J     |                 | 13.1                     | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.0               | 2.3   | 0.5       | 0.5   | 3.5          | 2.8   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 515               | Fine  | Field   | SP-2 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.688             | 2.752 | 7.58    | NJ   |                 | 3.8                      |       | 0.1            | 0.4                   |       | 1.7%                 |       |
| 2,3,7,8-TCDD        | 0.339             | 1.356 |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 0.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.228             | 0.912 | 34.9    | --   |                 | 34.9                     | 34.9  | 0.05           | 1.7                   | 1.7   | 7.9%                 | 9.2%  |
| 2,3,4,7,8-PeCDF     | 0.196             | 0.784 | 7.1     | --   |                 | 7.1                      | 7.1   | 0.5            | 3.6                   | 3.6   | 16.0%                | 18.8% |
| 1,2,3,7,8-PeCDD     | 0.369             | 1.476 | 1.07    | B    | <5x*B           | 1.1                      | 0.3   | 1              | 1.1                   | 0.3   | 5.0%                 | 1.6%  |
| 1,2,3,4,7,8-HxCDF   | 3.87              | 15.48 | 60.8    | --   |                 | 60.8                     | 60.8  | 0.1            | 6.1                   | 6.1   | 27.4%                | 32.1% |
| 1,2,3,6,7,8-HxCDF   | 3.48              | 13.92 | 32.6    | --   |                 | 32.6                     | 32.6  | 0.1            | 3.3                   | 3.3   | 14.7%                | 17.2% |
| 2,3,4,6,7,8-HxCDF   | 4.37              | 17.48 | 12.8    | --   |                 | 12.8                     | 6.4   | 0.1            | 1.3                   | 0.6   | 5.8%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 5.11              | 20.44 | 12.4    | --   |                 | 12.4                     | 6.2   | 0.1            | 1.2                   | 0.6   | 5.6%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.543             | 2.172 | 1.31    | --   |                 | 1.3                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.6%                 | 0.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.446             | 1.784 | 1.51    | --   |                 | 1.5                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.7%                 | 0.4%  |
| 1,2,3,7,8,9-HxCDD   | 1.17              | 4.68  |         | EJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 125               | 500   |         | D    | <5x*B           | 31.3                     |       | 0.01           | 0.3                   |       | 1.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.314             | 1.256 | 62.9    | --   |                 | 62.9                     | 62.9  | 0.01           | 0.6                   | 0.6   | 2.8%                 | 3.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.308             | 1.232 | 24.7    | --   |                 | 24.7                     | 24.7  | 0.01           | 0.2                   | 0.2   | 1.1%                 | 1.3%  |
| OCDF                | 0.223             | 0.892 | 892     | --   |                 | 892.0                    | 892.0 | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| OCDD                | 0.193             | 0.772 | 178     | --   |                 | 178.0                    | 178.0 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 2.92              | 11.68 | 87.6    | J    |                 | 87.6                     | 43.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 3.43              | 13.72 | 10.4    | J    |                 | 10.4                     | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 6.37              | 25.48 | 448     | --   |                 | 448.0                    | 448.0 | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 61                | 244   |         | E    | <5x*B           | 30.5                     |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 5.23              | 20.92 | 872     | CJ   |                 | 872.0                    | 436.0 | 0.0001         | 0.1                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 5.53              | 22.12 |         | --   | <5x*B           | 2.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.569             | 2.276 | 14.4    | --   |                 | 14.4                     | 14.4  | 0.1            | 1.4                   | 1.4   | 6.5%                 | 7.6%  |
| PCB-156             | 7.76              | 31.04 | 146     | J    |                 | 146.0                    | 73.0  | 0.0005         | 0.1                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-157             | 8.25              | 33    | 41.5    | J    |                 | 41.5                     | 20.8  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 7.73              | 30.92 | 79.6    | J    |                 | 79.6                     | 39.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.632             | 2.528 | 2.52    | J    |                 | 2.5                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 13.9              | 55.6  | 27.5    | J    |                 | 27.5                     | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 20.5              | 17.3  | 1.6       | 1.4   | 22.1         | 18.7  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 282               | Fine  | Field   | SP-3 |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.587             | 2.348 | 7.85    | NJ   |                 | 3.9                      |        | 0.1            | 0.4                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.444             | 1.776 | 0.948   | --   |                 | 0.9                      | 0.5    | 1              | 0.9                   | 0.5   | 2.7%                 | 1.7%  |
| 1,2,3,7,8-PeCDF     | 0.313             | 1.252 | 47.7    | --   |                 | 47.7                     | 47.7   | 0.05           | 2.4                   | 2.4   | 7.3%                 | 8.0%  |
| 2,3,4,7,8-PeCDF     | 0.282             | 1.128 | 7.78    | --   |                 | 7.8                      | 7.8    | 0.5            | 3.9                   | 3.9   | 11.9%                | 13.1% |
| 1,2,3,7,8-PeCDD     | 0.452             | 1.808 | 1.67    | B    | <5x*B           | 1.7                      | 0.4    | 1              | 1.7                   | 0.4   | 5.2%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDF   | 3.04              | 12.16 | 86.9    | --   |                 | 86.9                     | 86.9   | 0.1            | 8.7                   | 8.7   | 26.5%                | 29.3% |
| 1,2,3,6,7,8-HxCDF   | 2.73              | 10.92 | 47.6    | --   |                 | 47.6                     | 47.6   | 0.1            | 4.8                   | 4.8   | 14.5%                | 16.0% |
| 2,3,4,6,7,8-HxCDF   | 3.49              | 13.96 | 20.2    | --   |                 | 20.2                     | 20.2   | 0.1            | 2.0                   | 2.0   | 6.1%                 | 6.8%  |
| 1,2,3,7,8,9-HxCDF   | 4.21              | 16.84 | 19.6    | --   |                 | 19.6                     | 19.6   | 0.1            | 2.0                   | 2.0   | 6.0%                 | 6.6%  |
| 1,2,3,4,7,8-HxCDD   | 1.49              | 5.96  |         | E    |                 | 0.7                      |        | 0.1            | 0.1                   |       | 0.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.509             | 2.036 | 2.19    | --   |                 | 2.2                      | 2.2    | 0.1            | 0.2                   | 0.2   | 0.7%                 | 0.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.5               | 2     | 1.69    | J    |                 | 1.7                      | 0.4    | 0.1            | 0.2                   | 0.0   | 0.5%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDF | 207               | 828   |         | D    | <5x*B           | 51.8                     |        | 0.01           | 0.5                   |       | 1.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.21              | 0.84  | 107     | --   |                 | 107.0                    | 107.0  | 0.01           | 1.1                   | 1.1   | 3.3%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDD | 0.201             | 0.804 | 29.4    | --   |                 | 29.4                     | 29.4   | 0.01           | 0.3                   | 0.3   | 0.9%                 | 1.0%  |
| OCDF                | 0.14              | 0.56  | 1860    | --   |                 | 1860.0                   | 1860.0 | 0.0001         | 0.2                   | 0.2   | 0.6%                 | 0.6%  |
| OCDD                | 0.179             | 0.716 | 186     | --   |                 | 186.0                    | 186.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 5.11              | 20.44 | 737     | J    |                 | 737.0                    | 368.5  | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 6.8               | 27.2  | 30.4    | J    |                 | 30.4                     | 15.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 31.1              | 124.4 | 1800    | CJ   |                 | 1800.0                   | 900.0  | 0.0001         | 0.2                   | 0.1   | 0.5%                 | 0.3%  |
| PCB-114             | 30.3              | 121.2 | 98.4    | --   |                 | 98.4                     | 49.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 26.6              | 106.4 | 2620    | CJ   |                 | 2620.0                   | 1310.0 | 0.0001         | 0.3                   | 0.1   | 0.8%                 | 0.4%  |
| PCB-123             | 28.1              | 112.4 |         | --   | <5x*B           | 14.1                     |        | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.42              | 5.68  | 28.8    | --   |                 | 28.8                     | 28.8   | 0.1            | 2.9                   | 2.9   | 8.8%                 | 9.7%  |
| PCB-156             | 3.92              | 15.68 | 171     | J    |                 | 171.0                    | 85.5   | 0.0005         | 0.1                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-157             | 4.17              | 16.68 | 45.4    | J    |                 | 45.4                     | 22.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-167             | 3.9               | 15.6  | 81.5    | J    |                 | 81.5                     | 40.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.32              | 5.28  | 3.42    | J    |                 | 3.4                      | 0.9    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 11.3              | 45.2  | 40.8    | J    |                 | 40.8                     | 10.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 29.4              | 26.5  | 3.6       | 3.1   | 33.0         | 29.6  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 909               | Fine  | Field   | SP-4 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.303             | 1.212 | 1.38    | NJ   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.434             | 1.736 |         | --   |                 | 0.2                      |       | 1              | 0.2                   |       | 3.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.296             | 1.184 | 8.89    | --   |                 | 8.9                      | 8.9   | 0.05           | 0.4                   | 0.4   | 7.5%                 | 9.2%  |
| 2,3,4,7,8-PeCDF     | 0.257             | 1.028 | 1.29    | --   |                 | 1.3                      | 1.3   | 0.5            | 0.7                   | 0.7   | 10.9%                | 13.4% |
| 1,2,3,7,8-PeCDD     | 0.476             | 1.904 |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       | 3.4%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.915             | 3.66  | 15.9    | --   |                 | 15.9                     | 15.9  | 0.1            | 1.6                   | 1.6   | 26.7%                | 32.8% |
| 1,2,3,6,7,8-HxCDF   | 0.798             | 3.192 | 8.42    | --   |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 14.1%                | 17.3% |
| 2,3,4,6,7,8-HxCDF   | 1.27              | 5.08  | 4.19    | --   |                 | 4.2                      | 2.1   | 0.1            | 0.4                   | 0.2   | 7.0%                 | 4.3%  |
| 1,2,3,7,8,9-HxCDF   | 1.72              | 6.88  | 3.82    | --   |                 | 3.8                      | 1.9   | 0.1            | 0.4                   | 0.2   | 6.4%                 | 3.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.346             | 1.384 | 0.486   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 0.8%                 | 0.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.295             | 1.18  | 0.843   | --   |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.3%                 | 0.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.668             | 2.672 |         | EJ   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 40.5              | 162   |         | D    | <5x*B           | 10.1                     |       | 0.01           | 0.1                   |       | 1.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.576             | 2.304 | 19.4    | --   |                 | 19.4                     | 19.4  | 0.01           | 0.2                   | 0.2   | 3.3%                 | 4.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.246             | 0.984 | 10.7    | --   |                 | 10.7                     | 10.7  | 0.01           | 0.1                   | 0.1   | 1.8%                 | 2.2%  |
| OCDF                | 0.33              | 1.32  | 435     | --   |                 | 435.0                    | 435.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| OCDD                | 0.389             | 1.556 | 84.3    | --   |                 | 84.3                     | 84.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 0.936             | 3.744 | 31.2    | BJ   | <5x*B           | 31.2                     | 15.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 1.03              | 4.12  | 1.8     | J    |                 | 1.8                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.37              | 13.48 | 116     | B    | <5x*B           | 116.0                    | 58.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 3.29              | 13.16 | 5.8     | B    | <5x*B           | 5.8                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 2.86              | 11.44 | 227     | BJ   | <5x*B           | 227.0                    | 113.5 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 3.02              | 12.08 |         | --   | <5x*B           | 1.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.983             | 3.932 | 4.84    | --   |                 | 4.8                      | 4.8   | 0.1            | 0.5                   | 0.5   | 8.0%                 | 9.9%  |
| PCB-156             | 2.21              | 8.84  | 38      | BJ   | <5x*B           | 38.0                     | 19.0  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-157             | 2.35              | 9.4   | 11.1    | BJ   | <5x*B           | 11.1                     | 5.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 2.2               | 8.8   | 21.7    | BJ   | <5x*B           | 21.7                     | 10.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.398             | 1.592 | 0.849   | J    |                 | 0.8                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 2.97              | 11.88 | 5.85    | J    |                 | 5.9                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.4               | 4.2   | 0.5       | 0.5   | 5.9          | 4.7   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 218               | Fine   | Field   | SP-5 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.376             | 1.504  | 0.444   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.169             | 0.676  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 3.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.198             | 0.792  | 1.02    | --   |                 | 1.0                      | 1.0   | 0.05           | 0.1                   | 0.1   | 1.8%                 | 2.6%  |
| 2,3,4,7,8-PeCDF     | 0.172             | 0.688  | 0.507   | --   |                 | 0.5                      | 0.3   | 0.5            | 0.3                   | 0.2   | 9.1%                 | 7.9%  |
| 1,2,3,7,8-PeCDD     | 0.505             | 2.02   |         | E    | <5x*B           | 0.3                      |       | 1              | 0.3                   |       | 10.9%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.458             | 1.832  | 2.14    | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 7.6%                 | 11.1% |
| 1,2,3,6,7,8-HxCDF   | 0.385             | 1.54   | 1.58    | B    | <5x*B           | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 5.8%                 | 4.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.518             | 2.072  | 1.07    | B    | <5x*B           | 1.1                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 1.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.622             | 2.488  | 0.751   | B    | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.139             | 0.556  | 0.626   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.2%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.12              | 0.48   | 1.21    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.12              | 0.48   | 0.93    | J    |                 | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.3%                 | 2.6%  |
| 1,2,3,4,6,7,8-HpCDF | 9.53              | 38.12  |         | D    | <5x*B           | 2.4                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.204             | 0.816  | 2.34    | --   |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0477            | 0.1908 | 26.4    | --   |                 | 26.4                     | 26.4  | 0.01           | 0.3                   | 0.3   | 9.6%                 | 13.9% |
| OCDF                | 0.16              | 0.64   | 36.5    | B    | <5x*B           | 36.5                     | 18.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.11              | 0.44   | 203     | --   |                 | 203.0                    | 203.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-77              | 0.464             | 1.856  | 33.1    | J    |                 | 33.1                     | 16.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.524             | 2.096  | 1.28    | J    |                 | 1.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.45              | 9.8    | 164     | B    | <5x*B           | 164.0                    | 82.0  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.4%  |
| PCB-114             | 2.39              | 9.56   | 7.54    | B    | <5x*B           | 7.5                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1.97              | 7.88   | 361     | BJ   | <5x*B           | 361.0                    | 180.5 | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.0%  |
| PCB-123             | 2.08              | 8.32   |         | --   | <5x*B           | 1.0                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.403             | 1.612  | 7.61    | --   |                 | 7.6                      | 7.6   | 0.1            | 0.8                   | 0.8   | 27.5%                | 40.1% |
| PCB-156             | 0.944             | 3.776  | 70.6    | J    |                 | 70.6                     | 35.3  | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 0.9%  |
| PCB-157             | 1                 | 4      | 18.5    | J    |                 | 18.5                     | 9.3   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-167             | 0.94              | 3.76   | 33.4    | BJ   | <5x*B           | 33.4                     | 16.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.299             | 1.196  | 1.01    | J    |                 | 1.0                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-189             | 1.84              | 7.36   | 7.02    | J    |                 | 7.0                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.2   | 0.8       | 0.8   | 2.8          | 2.0   |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 523               | Fine  | Field   | SP-6 |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.294             | 1.176 | 3.1     | NJ   |                 | 1.6                      |        | 0.1            | 0.2                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.179             | 0.716 | 0.394   | --   |                 | 0.4                      | 0.2    | 1              | 0.4                   | 0.2   | 2.8%                 | 1.6%  |
| 1,2,3,7,8-PeCDF     | 0.251             | 1.004 | 14.7    | --   |                 | 14.7                     | 14.7   | 0.05           | 0.7                   | 0.7   | 5.2%                 | 6.0%  |
| 2,3,4,7,8-PeCDF     | 0.221             | 0.884 | 3.58    | --   |                 | 3.6                      | 3.6    | 0.5            | 1.8                   | 1.8   | 12.7%                | 14.6% |
| 1,2,3,7,8-PeCDD     | 0.285             | 1.14  | 0.89    | B    | <5x*B           | 0.9                      | 0.2    | 1              | 0.9                   | 0.2   | 6.4%                 | 1.6%  |
| 1,2,3,4,7,8-HxCDF   | 0.855             | 3.42  | 26      | --   |                 | 26.0                     | 26.0   | 0.1            | 2.6                   | 2.6   | 18.4%                | 21.1% |
| 1,2,3,6,7,8-HxCDF   | 0.74              | 2.96  | 13.9    | --   |                 | 13.9                     | 13.9   | 0.1            | 1.4                   | 1.4   | 9.8%                 | 11.3% |
| 2,3,4,6,7,8-HxCDF   | 0.998             | 3.992 | 6.49    | --   |                 | 6.5                      | 6.5    | 0.1            | 0.7                   | 0.7   | 4.6%                 | 5.3%  |
| 1,2,3,7,8,9-HxCDF   | 1.23              | 4.92  | 5.48    | --   |                 | 5.5                      | 5.5    | 0.1            | 0.6                   | 0.6   | 3.9%                 | 4.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.373             | 1.492 | 1.18    | --   |                 | 1.2                      | 0.6    | 0.1            | 0.1                   | 0.1   | 0.8%                 | 0.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.327             | 1.308 | 1.94    | --   |                 | 1.9                      | 1.9    | 0.1            | 0.2                   | 0.2   | 1.3%                 | 1.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.324             | 1.296 | 1.41    | J    |                 | 1.4                      | 0.7    | 0.1            | 0.1                   | 0.1   | 1.0%                 | 0.6%  |
| 1,2,3,4,6,7,8-HpCDF | 59.1              | 236.4 |         | D    | <5x*B           | 14.8                     |        | 0.01           | 0.1                   |       | 1.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.295             | 1.18  | 26      | --   |                 | 26.0                     | 26.0   | 0.01           | 0.3                   | 0.3   | 1.8%                 | 2.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.297             | 1.188 | 42.9    | --   |                 | 42.9                     | 42.9   | 0.01           | 0.4                   | 0.4   | 3.0%                 | 3.5%  |
| OCDF                | 0.196             | 0.784 | 352     | --   |                 | 352.0                    | 352.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.193             | 0.772 | 328     | --   |                 | 328.0                    | 328.0  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-77              | 1.85              | 7.4   | 161     | J    |                 | 161.0                    | 80.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 2.22              | 8.88  | 4.65    | J    |                 | 4.7                      | 1.2    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 40.1              | 160.4 | 1690    | CJ   |                 | 1690.0                   | 845.0  | 0.0001         | 0.2                   | 0.1   | 1.2%                 | 0.7%  |
| PCB-114             | 39.1              | 156.4 | 96.1    | --   |                 | 96.1                     | 48.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-118             | 32.2              | 128.8 | 3930    | CJ   |                 | 3930.0                   | 1965.0 | 0.0001         | 0.4                   | 0.2   | 2.8%                 | 1.6%  |
| PCB-123             | 34.1              | 136.4 |         | --   | <5x*B           | 17.1                     |        | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.28              | 5.12  | 26.2    | --   |                 | 26.2                     | 26.2   | 0.1            | 2.6                   | 2.6   | 18.5%                | 21.3% |
| PCB-156             | 3.67              | 14.68 | 559     | CJ   |                 | 559.0                    | 279.5  | 0.0005         | 0.3                   | 0.1   | 2.0%                 | 1.1%  |
| PCB-157             | 3.9               | 15.6  | 133     | J    |                 | 133.0                    | 66.5   | 0.0005         | 0.1                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-167             | 3.65              | 14.6  | 232     | J    |                 | 232.0                    | 116.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.2               | 4.8   | 2.76    | J    |                 | 2.8                      | 0.7    | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 7.05              | 28.2  | 41.5    | IJ   |                 | 41.5                     | 20.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 10.5              | 9.3   | 3.6       | 3.0   | 14.1         | 12.3  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 347               | Fine  | Field   | SP-7 |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.738             | 2.952 | 20.3    | NJ   |                 | 10.2                     |        | 0.1            | 1.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.276             | 1.104 | 0.989   | --   |                 | 1.0                      | 0.5    | 1              | 1.0                   | 0.5   | 1.0%                 | 0.6%  |
| 1,2,3,7,8-PeCDF     | 0.459             | 1.836 | 131     | --   |                 | 131.0                    | 131.0  | 0.05           | 6.6                   | 6.6   | 6.5%                 | 7.3%  |
| 2,3,4,7,8-PeCDF     | 0.412             | 1.648 | 26.6    | --   |                 | 26.6                     | 26.6   | 0.5            | 13.3                  | 13.3  | 13.2%                | 14.7% |
| 1,2,3,7,8-PeCDD     | 0.181             | 0.724 | 8.53    | --   |                 | 8.5                      | 8.5    | 1              | 8.5                   | 8.5   | 8.4%                 | 9.4%  |
| 1,2,3,4,7,8-HxCDF   | 12.6              | 50.4  | 241     | --   |                 | 241.0                    | 241.0  | 0.1            | 24.1                  | 24.1  | 23.9%                | 26.7% |
| 1,2,3,6,7,8-HxCDF   | 11.4              | 45.6  | 124     | --   |                 | 124.0                    | 124.0  | 0.1            | 12.4                  | 12.4  | 12.3%                | 13.7% |
| 2,3,4,6,7,8-HxCDF   | 16.3              | 65.2  | 61.5    | --   |                 | 61.5                     | 30.8   | 0.1            | 6.2                   | 3.1   | 6.1%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 18.5              | 74    | 59.7    | --   |                 | 59.7                     | 29.9   | 0.1            | 6.0                   | 3.0   | 5.9%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.742             | 2.968 | 13      | --   |                 | 13.0                     | 13.0   | 0.1            | 1.3                   | 1.3   | 1.3%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.651             | 2.604 | 19.8    | --   |                 | 19.8                     | 19.8   | 0.1            | 2.0                   | 2.0   | 2.0%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.646             | 2.584 | 12.9    | J    |                 | 12.9                     | 6.5    | 0.1            | 1.3                   | 0.7   | 1.3%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDF | 531               | 2120  |         | D    | <5x*B           | 132.8                    |        | 0.01           | 1.3                   |       | 1.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.462             | 1.848 | 278     | --   |                 | 278.0                    | 278.0  | 0.01           | 2.8                   | 2.8   | 2.8%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.556             | 2.224 | 530     | --   |                 | 530.0                    | 530.0  | 0.01           | 5.3                   | 5.3   | 5.3%                 | 5.9%  |
| OCDF                | 0.245             | 0.98  | 2770    | SJ   |                 | 2770.0                   | 1385.0 | 0.0001         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| OCDD                | 0.338             | 1.352 | 3530    | SJ   |                 | 3530.0                   | 1765.0 | 0.0001         | 0.4                   | 0.2   | 0.3%                 | 0.2%  |
| PCB-77              | 1.61              | 6.44  | 249     | J    |                 | 249.0                    | 124.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.96              | 7.84  | 8.21    | J    |                 | 8.2                      | 4.1    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 40.3              | 161.2 | 2390    | CJ   |                 | 2390.0                   | 1195.0 | 0.0001         | 0.2                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-114             | 39.3              | 157.2 | 124     | --   |                 | 124.0                    | 62.0   | 0.0005         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 30.8              | 123.2 | 5140    | CJ   |                 | 5140.0                   | 2570.0 | 0.0001         | 0.5                   | 0.3   | 0.5%                 | 0.3%  |
| PCB-123             | 32.6              | 130.4 |         | --   | <5x*B           | 16.3                     |        | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.09              | 4.36  | 56.6    | --   |                 | 56.6                     | 56.6   | 0.1            | 5.7                   | 5.7   | 5.6%                 | 6.3%  |
| PCB-156             | 26.1              | 104.4 | 1090    | CJ   |                 | 1090.0                   | 545.0  | 0.0005         | 0.5                   | 0.3   | 0.5%                 | 0.3%  |
| PCB-157             | 27.8              | 111.2 | 257     | J    |                 | 257.0                    | 128.5  | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-167             | 26                | 104   | 552     | CJ   |                 | 552.0                    | 276.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 4.11              | 16.44 | 10.8    | J    |                 | 10.8                     | 2.7    | 0.01           | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 19.9              | 79.6  | 161     | J    |                 | 161.0                    | 80.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 93.8              | 83.9  | 7.2       | 6.5   | 101.0        | 90.4  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 555               | Fine  | Field   | SP-8 |                 |                          |        |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|--------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |        | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant  |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.603             | 2.412 | 7.39    | NJ   |                 | 3.7                      |        | 0.1            | 0.4                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.432             | 1.728 |         | E    |                 | 0.2                      |        | 1              | 0.2                   |       | 0.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.286             | 1.144 | 56.2    | --   |                 | 56.2                     | 56.2   | 0.05           | 2.8                   | 2.8   | 8.3%                 | 9.6%  |
| 2,3,4,7,8-PeCDF     | 0.234             | 0.936 | 9.69    | --   |                 | 9.7                      | 9.7    | 0.5            | 4.9                   | 4.9   | 14.3%                | 16.5% |
| 1,2,3,7,8-PeCDD     | 1.84              | 7.36  |         | E    | <5x*B           | 0.9                      |        | 1              | 0.9                   |       | 2.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 6.35              | 25.4  | 93.3    | --   |                 | 93.3                     | 93.3   | 0.1            | 9.3                   | 9.3   | 27.5%                | 31.7% |
| 1,2,3,6,7,8-HxCDF   | 5.32              | 21.28 | 49.7    | --   |                 | 49.7                     | 49.7   | 0.1            | 5.0                   | 5.0   | 14.7%                | 16.9% |
| 2,3,4,6,7,8-HxCDF   | 7.24              | 28.96 | 22.1    | --   |                 | 22.1                     | 11.1   | 0.1            | 2.2                   | 1.1   | 6.5%                 | 3.8%  |
| 1,2,3,7,8,9-HxCDF   | 8.42              | 33.68 | 20.3    | --   |                 | 20.3                     | 10.2   | 0.1            | 2.0                   | 1.0   | 6.0%                 | 3.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.571             | 2.284 | 2.66    | --   |                 | 2.7                      | 2.7    | 0.1            | 0.3                   | 0.3   | 0.8%                 | 0.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.469             | 1.876 | 4.34    | --   |                 | 4.3                      | 4.3    | 0.1            | 0.4                   | 0.4   | 1.3%                 | 1.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.475             | 1.9   | 3.41    | J    |                 | 3.4                      | 1.7    | 0.1            | 0.3                   | 0.2   | 1.0%                 | 0.6%  |
| 1,2,3,4,6,7,8-HpCDF | 203               | 812   |         | D    | <5x*B           | 50.8                     |        | 0.01           | 0.5                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.256             | 1.024 | 100     | --   |                 | 100.0                    | 100.0  | 0.01           | 1.0                   | 1.0   | 3.0%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.146             | 0.584 | 78.1    | --   |                 | 78.1                     | 78.1   | 0.01           | 0.8                   | 0.8   | 2.3%                 | 2.7%  |
| OCDF                | 0.104             | 0.416 | 1390    | --   |                 | 1390.0                   | 1390.0 | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| OCDD                | 0.131             | 0.524 | 460     | --   |                 | 460.0                    | 460.0  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 4.31              | 17.24 | 163     | J    |                 | 163.0                    | 81.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 4.65              | 18.6  | 6.86    | J    |                 | 6.9                      | 1.7    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 15.5              | 62    | 1170    | CJ   |                 | 1170.0                   | 585.0  | 0.0001         | 0.1                   | 0.1   | 0.3%                 | 0.2%  |
| PCB-114             | 15.1              | 60.4  | 66.2    | --   |                 | 66.2                     | 66.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 12.8              | 51.2  | 2460    | CJ   |                 | 2460.0                   | 1230.0 | 0.0001         | 0.2                   | 0.1   | 0.7%                 | 0.4%  |
| PCB-123             | 13.5              | 54    |         | --   | <5x*B           | 6.8                      |        | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1                 | 4     | 20.3    | --   |                 | 20.3                     | 20.3   | 0.1            | 2.0                   | 2.0   | 6.0%                 | 6.9%  |
| PCB-156             | 4.35              | 17.4  | 344     | --   |                 | 344.0                    | 344.0  | 0.0005         | 0.2                   | 0.2   | 0.5%                 | 0.6%  |
| PCB-157             | 4.63              | 18.52 | 87.3    | --   |                 | 87.3                     | 87.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 4.33              | 17.32 | 154     | --   |                 | 154.0                    | 154.0  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.984             | 3.936 | 3.36    | --   |                 | 3.4                      | 1.7    | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 7.49              | 29.96 | 42.7    | --   |                 | 42.7                     | 42.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 31.1              | 26.9  | 2.5       | 2.4   | 33.6         | 29.3  |

## APPENDIX A4. Results for RMA Historic Use Field Samples (Study 4)

| Sample ID           | 497               | Fine   | Field   | SP-9 |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.447             | 1.788  | 0.717   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.123             | 0.492  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 2.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.221             | 0.884  | 4.73    | --   |                 | 4.7                      | 4.7   | 0.05           | 0.2                   | 0.2   | 6.0%                 | 8.1%  |
| 2,3,4,7,8-PeCDF     | 0.192             | 0.768  | 0.906   | --   |                 | 0.9                      | 0.9   | 0.5            | 0.5                   | 0.5   | 11.5%                | 15.5% |
| 1,2,3,7,8-PeCDD     | 0.443             | 1.772  |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       | 5.1%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.523             | 2.092  | 8.86    | --   |                 | 8.9                      | 8.9   | 0.1            | 0.9                   | 0.9   | 22.8%                | 30.7% |
| 1,2,3,6,7,8-HxCDF   | 0.461             | 1.844  | 5.06    | --   |                 | 5.1                      | 5.1   | 0.1            | 0.5                   | 0.5   | 13.1%                | 17.6% |
| 2,3,4,6,7,8-HxCDF   | 0.557             | 2.228  | 2.16    | --   |                 | 2.2                      | 1.1   | 0.1            | 0.2                   | 0.1   | 5.6%                 | 3.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.633             | 2.532  | 2.18    | B    | <5x*B           | 2.2                      | 0.5   | 0.1            | 0.2                   | 0.1   | 5.6%                 | 1.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.113             | 0.452  | 0.457   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.3%                 | 1.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0954            | 0.3816 | 0.715   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 1.8%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0962            | 0.3848 | 0.666   | J    |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 1.8%                 | 1.0%  |
| 1,2,3,4,6,7,8-HpCDF | 22.5              | 90     |         | D    | <5x*B           | 5.6                      |       | 0.01           | 0.1                   |       | 1.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.127             | 0.508  | 9.97    | --   |                 | 10.0                     | 10.0  | 0.01           | 0.1                   | 0.1   | 2.6%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.118             | 0.472  | 9.88    | --   |                 | 9.9                      | 9.9   | 0.01           | 0.1                   | 0.1   | 2.5%                 | 3.4%  |
| OCDF                | 0.0927            | 0.3708 | 153     | --   |                 | 153.0                    | 153.0 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| OCDD                | 0.0911            | 0.3644 | 75.4    | --   |                 | 75.4                     | 75.4  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-77              | 1.67              | 6.68   | 18.5    | BJ   | <5x*B           | 18.5                     | 9.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.212             | 0.848  | 1.05    | J    |                 | 1.1                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 10.9              | 43.6   | 278     | --   |                 | 278.0                    | 278.0 | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-114             | 10.7              | 42.8   | 17.1    | --   |                 | 17.1                     | 8.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 8.32              | 33.28  | 641     | CJ   |                 | 641.0                    | 320.5 | 0.0001         | 0.1                   | 0.0   | 1.6%                 | 1.1%  |
| PCB-123             | 8.81              | 35.24  |         | --   | <5x*B           | 4.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.42              | 5.68   | 3.88    | --   |                 | 3.9                      | 1.9   | 0.1            | 0.4                   | 0.2   | 10.0%                | 6.5%  |
| PCB-156             | 14.8              | 59.2   | 103     | J    |                 | 103.0                    | 51.5  | 0.0005         | 0.1                   | 0.0   | 1.3%                 | 0.9%  |
| PCB-157             | 15.7              | 62.8   | 26      | J    |                 | 26.0                     | 6.5   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-167             | 14.7              | 58.8   | 42.9    | BJ   | <5x*B           | 42.9                     | 10.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.204             | 0.816  | 0.645   | J    |                 | 0.6                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 36.1              | 144.4  |         | J    |                 | 18.1                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags;  
concentrations were rounded to the nearest 0.1 ppt.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.4               | 2.7   | 0.6       | 0.2   | 4.0          | 2.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 114-B             | Bulk   | I zone  |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.635             | 2.54   | 0.283   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.17              | 0.68   |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 3.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.247             | 0.988  | 0.686   | --   |                 | 0.7                      | 0.3   | 0.05           | 0.0                   | 0.0   | 1.4%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.645             | 2.58   |         | EJ   |                 | 0.3                      |       | 0.5            | 0.2                   |       | 5.8%                 |       |
| 1,2,3,7,8-PeCDD     | 0.12              | 0.48   | 0.683   | J    |                 | 0.7                      | 0.3   | 1              | 0.7                   | 0.3   | 27.2%                | 18.2% |
| 1,2,3,4,7,8-HxCDF   | 0.187             | 0.748  | 0.854   | B    | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 2.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.185             | 0.74   | 0.857   | B    | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 2.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.209             | 0.836  | 0.89    | B    | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.263             | 1.052  | 0.884   | --   |                 | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.5%                 | 2.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.107             | 0.428  | 0.809   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 4.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0954            | 0.3816 | 1.18    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.7%                 | 7.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0941            | 0.3764 | 1.19    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 4.7%                 | 7.3%  |
| 1,2,3,4,6,7,8-HpCDF | 5.82              | 23.28  |         | D    |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.264             | 1.056  | 1       | B    | <5x*B           | 1                        | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0986            | 0.3944 | 19.7    | --   |                 | 19.7                     | 19.7  | 0.01           | 0.2                   | 0.2   | 7.7%                 | 11.9% |
| OCDF                | 0.106             | 0.424  | 14.8    | B    | <5x*B           | 14.8                     | 7.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.0592            | 0.2368 | 178     | --   |                 | 178                      | 178   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-77              | 0.451             | 1.804  | 15.8    | --   |                 | 15.8                     | 15.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.493             | 1.972  | 0.981   | B    | <5x*B           | 1                        | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.637             | 2.548  | 58.2    | B    | <5x*B           | 58.2                     | 29.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 0.622             | 2.488  | 2.01    | --   |                 | 2                        | 1     | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.517             | 2.068  | 108     | BJ   | <5x*B           | 108                      | 54    | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-123             | 0.548             | 2.192  |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.281             | 1.124  | 6.04    | --   |                 | 6                        | 6     | 0.1            | 0.6                   | 0.6   | 23.3%                | 36.3% |
| PCB-156             | 0.614             | 2.456  | 26.2    | --   |                 | 26.2                     | 26.2  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-157             | 0.609             | 2.436  | 6.79    | --   |                 | 6.8                      | 6.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-167             | 0.566             | 2.264  | 15.6    | --   |                 | 15.6                     | 15.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.222             | 0.888  | 0.952   | --   |                 | 1                        | 1     | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-189             | 0.292             | 1.168  | 4.49    | --   |                 | 4.5                      | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 0.8   | 0.6       | 0.6   | 2.5          | 1.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 282-B             | Bulk   | SP-3    |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.221             | 0.884  | 7.37    | NJ   |                 | 3.7                      |       | 0.1            | 0.4                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.105             | 0.42   | 1.3     | --   |                 | 1.3                      | 1.3   | 1              | 1.3                   | 1.3   | 4.6%                 | 4.9%  |
| 1,2,3,7,8-PeCDF     | 0.0877            | 0.3508 | 42.7    | --   |                 | 42.7                     | 42.7  | 0.05           | 2.1                   | 2.1   | 7.5%                 | 8.1%  |
| 2,3,4,7,8-PeCDF     | 0.0592            | 0.2368 | 5.92    | --   |                 | 5.9                      | 5.9   | 0.5            | 3.0                   | 3.0   | 10.4%                | 11.2% |
| 1,2,3,7,8-PeCDD     | 0.245             | 0.98   | 1.52    | --   |                 | 1.5                      | 1.5   | 1              | 1.5                   | 1.5   | 5.3%                 | 5.7%  |
| 1,2,3,4,7,8-HxCDF   | 0.294             | 1.176  | 66.8    | --   |                 | 66.8                     | 66.8  | 0.1            | 6.7                   | 6.7   | 23.5%                | 25.4% |
| 1,2,3,6,7,8-HxCDF   | 0.203             | 0.812  | 37.8    | --   |                 | 37.8                     | 37.8  | 0.1            | 3.8                   | 3.8   | 13.3%                | 14.3% |
| 2,3,4,6,7,8-HxCDF   | 0.301             | 1.204  | 16.5    | --   |                 | 16.5                     | 16.5  | 0.1            | 1.7                   | 1.7   | 5.8%                 | 6.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.359             | 1.436  | 16.3    | --   |                 | 16.3                     | 16.3  | 0.1            | 1.6                   | 1.6   | 5.7%                 | 6.2%  |
| 1,2,3,4,7,8-HxCDD   | 1.05              | 4.2    |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0742            | 0.2968 | 1.99    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 0.7%                 | 0.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.0878            | 0.3512 | 1.23    | J    |                 | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0766            | 0.3064 | 173     | --   |                 | 173                      | 173   | 0.01           | 1.7                   | 1.7   | 6.1%                 | 6.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.102             | 0.408  | 74.8    | --   |                 | 74.8                     | 74.8  | 0.01           | 0.7                   | 0.7   | 2.6%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.198             | 0.792  | 23      | --   |                 | 23                       | 23    | 0.01           | 0.2                   | 0.2   | 0.8%                 | 0.9%  |
| OCDF                | 0.0448            | 0.1792 | 1070    | SJ   |                 | 1070                     | 535   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| OCDD                | 0.0634            | 0.2536 | 169     | --   |                 | 169                      | 169   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.295             | 1.18   | 559     | CJ   |                 | 559                      | 279.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.29              | 1.16   | 21.9    | --   |                 | 21.9                     | 21.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4                 | 16     | 1790    | CJ   |                 | 1790                     | 895   | 0.0001         | 0.2                   | 0.1   | 0.6%                 | 0.3%  |
| PCB-114             | 4.18              | 16.72  | 90.7    | J    |                 | 90.7                     | 45.4  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 4.44              | 17.76  | 2400    | CJ   |                 | 2400                     | 1200  | 0.0001         | 0.2                   | 0.1   | 0.8%                 | 0.5%  |
| PCB-123             | 5.05              | 20.2   | 95.3    | J    |                 | 95.3                     | 47.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.431             | 1.724  | 26.1    | J    |                 | 26.1                     | 13.1  | 0.1            | 2.6                   | 1.3   | 9.2%                 | 5.0%  |
| PCB-156             | 1.02              | 4.08   | 136     | --   |                 | 136                      | 136   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| PCB-157             | 1.05              | 4.2    | 35.6    | --   |                 | 35.6                     | 35.6  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 1.04              | 4.16   | 72.8    | --   |                 | 72.8                     | 72.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.173             | 0.692  | 2.71    | J    |                 | 2.7                      | 1.4   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.529             | 2.116  | 21.7    | --   |                 | 21.7                     | 21.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 25.2              | 24.7  | 3.2       | 1.6   | 28.4         | 26.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 347-B             | Bulk   | SP-7    |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.56              | 6.24   | 17.4    | NJ   |                 | 8.7                      |       | 0.1            | 0.9                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.0981            | 0.3924 | 0.881   | --   |                 | 0.9                      | 0.9   | 1              | 0.9                   | 0.9   | 1.1%                 | 1.1%  |
| 1,2,3,7,8-PeCDF     | 0.0874            | 0.3496 | 118     | --   |                 | 118                      | 118   | 0.05           | 5.9                   | 5.9   | 7.3%                 | 7.5%  |
| 2,3,4,7,8-PeCDF     | 0.0742            | 0.2968 | 19.9    | --   |                 | 19.9                     | 19.9  | 0.5            | 10.0                  | 10.0  | 12.3%                | 12.6% |
| 1,2,3,7,8-PeCDD     | 0.0136            | 0.0544 | 5.52    | --   |                 | 5.5                      | 5.5   | 1              | 5.5                   | 5.5   | 6.8%                 | 7.0%  |
| 1,2,3,4,7,8-HxCDF   | 0.148             | 0.592  | 183     | --   |                 | 183                      | 183   | 0.1            | 18.3                  | 18.3  | 22.6%                | 23.2% |
| 1,2,3,6,7,8-HxCDF   | 0.129             | 0.516  | 96.2    | --   |                 | 96.2                     | 96.2  | 0.1            | 9.6                   | 9.6   | 11.9%                | 12.2% |
| 2,3,4,6,7,8-HxCDF   | 0.17              | 0.68   | 41.6    | --   |                 | 41.6                     | 41.6  | 0.1            | 4.2                   | 4.2   | 5.1%                 | 5.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.197             | 0.788  | 48.7    | --   |                 | 48.7                     | 48.7  | 0.1            | 4.9                   | 4.9   | 6.0%                 | 6.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.123             | 0.492  | 8.31    | --   |                 | 8.3                      | 8.3   | 0.1            | 0.8                   | 0.8   | 1.0%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.112             | 0.448  | 14.2    | --   |                 | 14.2                     | 14.2  | 0.1            | 1.4                   | 1.4   | 1.8%                 | 1.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.122             | 0.488  | 8.83    | --   |                 | 8.8                      | 8.8   | 0.1            | 0.9                   | 0.9   | 1.1%                 | 1.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.243             | 0.972  | 476     | --   |                 | 476                      | 476   | 0.01           | 4.8                   | 4.8   | 5.9%                 | 6.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.362             | 1.448  | 234     | --   |                 | 234                      | 234   | 0.01           | 2.3                   | 2.3   | 2.9%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.274             | 1.096  | 370     | --   |                 | 370                      | 370   | 0.01           | 3.7                   | 3.7   | 4.6%                 | 4.7%  |
| OCDF                | 0.0578            | 0.2312 | 2660    | CJ   |                 | 2660                     | 1330  | 0.0001         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| OCDD                | 0.119             | 0.476  | 3070    | CJ   |                 | 3070                     | 1535  | 0.0001         | 0.3                   | 0.2   | 0.4%                 | 0.2%  |
| PCB-77              | 1.11              | 4.44   | 174     | --   |                 | 174                      | 174   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.09              | 4.36   | 7.09    | --   |                 | 7.1                      | 7.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.7               | 22.8   | 2760    | CJ   |                 | 2760                     | 1380  | 0.0001         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| PCB-114             | 5.66              | 22.64  | 236     | --   |                 | 236                      | 236   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-118             | 4.27              | 17.08  | 6280    | CJ   |                 | 6280                     | 3140  | 0.0001         | 0.6                   | 0.3   | 0.8%                 | 0.4%  |
| PCB-123             | 4.8               | 19.2   | --      |      |                 | 2.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 2.77              | 11.08  | 44      | --   |                 | 44                       | 44    | 0.1            | 4.4                   | 4.4   | 5.4%                 | 5.6%  |
| PCB-156             | 1.94              | 7.76   | 1250    | CJ   |                 | 1250                     | 625   | 0.0005         | 0.6                   | 0.3   | 0.8%                 | 0.4%  |
| PCB-157             | 2.05              | 8.2    | 303     | --   |                 | 303                      | 303   | 0.0005         | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| PCB-167             | 1.89              | 7.56   | 583     | CJ   |                 | 583                      | 291.5 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.193             | 0.772  | 6.82    | --   |                 | 6.8                      | 6.8   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-189             | 3.59              | 14.36  | 223     | --   |                 | 223                      | 223   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 74.7              | 73.5  | 6.3       | 5.5   | 81.0         | 79.0  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 429-B             | Bulk   | S2      |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.705             | 2.82   | 1.13    | NJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.0689            | 0.2756 | 1.9     | --   |                 | 1.9                      | 1.9   | 1              | 1.9                   | 1.9   | 28.0%                | 32.5% |
| 1,2,3,7,8-PeCDF     | 0.0339            | 0.1356 | 4.19    | --   |                 | 4.2                      | 4.2   | 0.05           | 0.2                   | 0.2   | 3.1%                 | 3.6%  |
| 2,3,4,7,8-PeCDF     | 0.0279            | 0.1116 | 1.4     | --   |                 | 1.4                      | 1.4   | 0.5            | 0.7                   | 0.7   | 10.3%                | 12.0% |
| 1,2,3,7,8-PeCDD     | 0.658             | 2.632  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 4.4%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0701            | 0.2804 | 6.81    | --   |                 | 6.8                      | 6.8   | 0.1            | 0.7                   | 0.7   | 10.0%                | 11.6% |
| 1,2,3,6,7,8-HxCDF   | 0.0558            | 0.2232 | 3.59    | --   |                 | 3.6                      | 3.6   | 0.1            | 0.4                   | 0.4   | 5.3%                 | 6.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0691            | 0.2764 | 1.99    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 3.0%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.0662            | 0.2648 | 1.55    | B    | <5x*B           | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 2.4%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0648            | 0.2592 | 0.862   | B    | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.3%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0587            | 0.2348 | 2.02    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 3.0%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0638            | 0.2552 | 1.3     | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 1.9%                 | 2.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.225             | 0.9    | 22.4    | --   |                 | 22.4                     | 22.4  | 0.01           | 0.2                   | 0.2   | 3.3%                 | 3.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.31              | 1.24   | 6.45    | --   |                 | 6.5                      | 6.5   | 0.01           | 0.1                   | 0.1   | 1.0%                 | 1.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0786            | 0.3144 | 42.1    | --   |                 | 42.1                     | 42.1  | 0.01           | 0.4                   | 0.4   | 6.2%                 | 7.2%  |
| OCDF                | 0.0543            | 0.2172 | 90.2    | --   |                 | 90.2                     | 90.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0423            | 0.1692 | 303     | --   |                 | 303                      | 303   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 0.152             | 0.608  | 38.1    | --   |                 | 38.1                     | 38.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.139             | 0.556  | 1.88    | B    | <5x*B           | 1.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.1               | 4.4    | 479     | --   |                 | 479                      | 479   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-114             | 1.09              | 4.36   | 26.2    | --   |                 | 26.2                     | 26.2  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 1.01              | 4.04   | 1120    | CJ   |                 | 1120                     | 560   | 0.0001         | 0.1                   | 0.1   | 1.7%                 | 1.0%  |
| PCB-123             | 1.13              | 4.52   |         | --   |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 2.33              | 9.32   | 7.64    | --   |                 | 7.6                      | 3.8   | 0.1            | 0.8                   | 0.4   | 11.2%                | 6.5%  |
| PCB-156             | 0.735             | 2.94   | 148     | --   |                 | 148                      | 148   | 0.0005         | 0.1                   | 0.1   | 1.1%                 | 1.3%  |
| PCB-157             | 0.774             | 3.096  | 36.4    | --   |                 | 36.4                     | 36.4  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.714             | 2.856  | 64.7    | --   |                 | 64.7                     | 64.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.087             | 0.348  | 0.927   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-189             | 0.87              | 3.48   | 13.3    | --   |                 | 13.3                     | 13.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.8               | 5.2   | 1.0       | 0.6   | 6.8          | 5.8   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 515-B             | Bulk   | SP-2    |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.346             | 1.384  | 7.47    | NJ   |                 | 3.7                      |       | 0.1            | 0.4                   |       | 1.9%                 |       |
| 2,3,7,8-TCDD        | 0.136             | 0.544  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 0.5%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0865            | 0.346  | 30.1    | --   |                 | 30.1                     | 30.1  | 0.05           | 1.5                   | 1.5   | 7.6%                 | 7.8%  |
| 2,3,4,7,8-PeCDF     | 0.0689            | 0.2756 | 4.97    | --   |                 | 5                        | 5     | 0.5            | 2.5                   | 2.5   | 12.6%                | 13.0% |
| 1,2,3,7,8-PeCDD     | 0.0341            | 0.1364 | 0.697   | --   |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   | 3.5%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDF   | 0.0745            | 0.298  | 51.7    | --   |                 | 51.7                     | 51.7  | 0.1            | 5.2                   | 5.2   | 26.0%                | 26.9% |
| 1,2,3,6,7,8-HxCDF   | 0.0648            | 0.2592 | 26.5    | --   |                 | 26.5                     | 26.5  | 0.1            | 2.7                   | 2.7   | 13.3%                | 13.8% |
| 2,3,4,6,7,8-HxCDF   | 0.0753            | 0.3012 | 10.1    | --   |                 | 10.1                     | 10.1  | 0.1            | 1.0                   | 1.0   | 5.1%                 | 5.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0815            | 0.326  | 11.5    | --   |                 | 11.5                     | 11.5  | 0.1            | 1.2                   | 1.2   | 5.8%                 | 6.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0848            | 0.3392 | 1.27    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.7%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0797            | 0.3188 | 1.53    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.8%                 | 0.8%  |
| 1,2,3,7,8,9-HxCDD   | 1.03              | 4.12   |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.102             | 0.408  | 147     | --   |                 | 147                      | 147   | 0.01           | 1.5                   | 1.5   | 7.4%                 | 7.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.149             | 0.596  | 74.1    | --   |                 | 74.1                     | 74.1  | 0.01           | 0.7                   | 0.7   | 3.7%                 | 3.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0608            | 0.2432 | 24      | --   |                 | 24                       | 24    | 0.01           | 0.2                   | 0.2   | 1.2%                 | 1.2%  |
| OCDF                | 0.0467            | 0.1868 | 1830    | CJ   |                 | 1830                     | 915   | 0.0001         | 0.2                   | 0.1   | 0.9%                 | 0.5%  |
| OCDD                | 0.0793            | 0.3172 | 176     | --   |                 | 176                      | 176   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.436             | 1.744  | 76      | --   |                 | 76                       | 76    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.383             | 1.532  | 7.87    | --   |                 | 7.9                      | 7.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.66              | 6.64   | 401     | --   |                 | 401                      | 401   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 1.65              | 6.6    |         | --   | <5x*B           | 0.8                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 1.32              | 5.28   | 777     | CJ   |                 | 777                      | 388.5 | 0.0001         | 0.1                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 1.49              | 5.96   |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 2.21              | 8.84   | 14.8    | --   |                 | 14.8                     | 14.8  | 0.1            | 1.5                   | 1.5   | 7.5%                 | 7.7%  |
| PCB-156             | 2.41              | 9.64   | 142     | --   |                 | 142                      | 142   | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| PCB-157             | 2.55              | 10.2   | 41.3    | --   |                 | 41.3                     | 41.3  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 2.35              | 9.4    | 78.3    | --   |                 | 78.3                     | 78.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.238             | 0.952  | 1.98    | --   |                 | 2                        | 2     | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 5.32              | 21.28  | 25.5    | --   |                 | 25.5                     | 25.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 18.3              | 17.6  | 1.7       | 1.6   | 20.0         | 19.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 523-B             | Bulk  | SP-6    |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.589             | 2.36  | 3.19    | NJ   |                 | 1.6                      |       | 0.1            | 0.2                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.166             | 0.664 | 0.483   | --   |                 | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 3.8%                 | 1.8%  |
| 1,2,3,7,8-PeCDF     | 0.183             | 0.732 | 14      | --   |                 | 14                       | 14    | 0.05           | 0.7                   | 0.7   | 5.3%                 | 6.3%  |
| 2,3,4,7,8-PeCDF     | 0.163             | 0.652 | 3.52    | --   |                 | 3.5                      | 3.5   | 0.5            | 1.8                   | 1.8   | 13.2%                | 15.6% |
| 1,2,3,7,8-PeCDD     | 0.885             | 3.536 |         | E    | <5x*B           | 0.4                      |       | 1              | 0.4                   |       | 3.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 2.27              | 9.08  | 25.3    | --   |                 | 25.3                     | 25.3  | 0.1            | 2.5                   | 2.5   | 19.1%                | 22.6% |
| 1,2,3,6,7,8-HxCDF   | 1.97              | 7.88  | 13.6    | --   |                 | 13.6                     | 13.6  | 0.1            | 1.4                   | 1.4   | 10.3%                | 12.1% |
| 2,3,4,6,7,8-HxCDF   | 2.64              | 10.56 | 6.68    | --   |                 | 6.7                      | 3.3   | 0.1            | 0.7                   | 0.3   | 5.1%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDF   | 3.51              | 14.04 | 5.72    | --   |                 | 5.7                      | 2.9   | 0.1            | 0.6                   | 0.3   | 4.3%                 | 2.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.346             | 1.384 | 1.27    | --   |                 | 1.3                      | 0.6   | 0.1            | 0.1                   | 0.1   | 1.0%                 | 0.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.305             | 1.22  | 1.7     | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 1.3%                 | 1.5%  |
| 1,2,3,7,8,9-HxCDD   | 0.301             | 1.204 | 1.27    | J    |                 | 1.3                      | 0.6   | 0.1            | 0.1                   | 0.1   | 1.0%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDF | 56.5              | 225.6 |         | D    | <5x*B           | 14.1                     |       | 0.01           | 0.1                   |       | 1.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.398             | 1.592 | 27.9    | --   |                 | 27.9                     | 27.9  | 0.01           | 0.3                   | 0.3   | 2.1%                 | 2.5%  |
| 1,2,3,4,6,7,8-HpCDD | 0.169             | 0.676 | 40.9    | --   |                 | 40.9                     | 40.9  | 0.01           | 0.4                   | 0.4   | 3.1%                 | 3.7%  |
| OCDF                | 0.137             | 0.548 | 429     | --   |                 | 429                      | 429   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| OCDD                | 0.172             | 0.688 | 305     | --   |                 | 305                      | 305   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-77              | 4.48              | 17.92 | 147     | J    |                 | 147                      | 73.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 5.49              | 22    | 4.72    | J    |                 | 2.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 29.8              | 119.2 | 1440    | CJ   |                 | 1440                     | 720   | 0.0001         | 0.1                   | 0.1   | 1.1%                 | 0.6%  |
| PCB-114             | 29.1              | 116.4 |         | --   | <5x*B           | 14.6                     |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 23.2              | 92.8  | 3220    | CJ   |                 | 3220                     | 1610  | 0.0001         | 0.3                   | 0.2   | 2.4%                 | 1.4%  |
| PCB-123             | 24.6              | 98.4  |         | --   | <5x*B           | 12.3                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 2.7               | 10.8  | 24.4    | --   |                 | 24.4                     | 24.4  | 0.1            | 2.4                   | 2.4   | 18.5%                | 21.8% |
| PCB-156             | 6.35              | 25.36 | 462     | --   |                 | 462                      | 462   | 0.0005         | 0.2                   | 0.2   | 1.7%                 | 2.1%  |
| PCB-157             | 6.75              | 26.96 | 109     | --   |                 | 109                      | 109   | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| PCB-167             | 6.32              | 25.3  | 191     | --   |                 | 191                      | 191   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.856             | 3.42  | 2.3     | --   |                 | 2.3                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 10.7              | 42.8  | 51.6    | --   |                 | 51.6                     | 51.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 10.0              | 8.3   | 3.1       | 3.0   | 13.1         | 11.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1005              | CIL Clean | CIL-R   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.621             | 2.484     |         | U    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.288             | 1.152     |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 7.8%                 |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.359             | 1.436     |         | --   |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.36              | 1.44      |         | E    |                 | 0.2                      |       | 0.5            | 0.1                   |       | 7.8%                 |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.435             | 1.74      |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 15.6%                |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.29              | 1.16      | 0.687   | --   |                 | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 5.5%                 | 8.0%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.768             | 3.072     |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.1%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.311             | 1.244     | 0.909   | B    |                 | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 7.0%                 | 5.3%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.394             | 1.576     | 0.807   | B    |                 | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 6.3%                 | 5.3%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.261             | 1.044     | 0.311   | B    |                 | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 2.7%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.22              | 0.88      | 0.448   | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 5.3%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.222             | 0.888     |         | J    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 3.03              | 12.12     |         | D    |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 1.44              | 5.76      |         | --   |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.646             | 2.584     | 18.4    | --   |                 | 18.4                     | 18.4  | 0.01           | 0.2                   | 0.2   | 14.4%                | 48.8% |      |       |      |
| OCDF                | 0.331             | 1.324     | 4.14    | B    |                 | 4.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| OCDD                | 0.219             | 0.876     | 798     | --   |                 | 798                      | 798   | 0.0001         | 0.1                   | 0.1   | 6.2%                 | 21.2% |      |       |      |
| PCB-77              | 2.99              | 11.96     | 5.21    | B    |                 | 5.2                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 2.86              | 11.44     | 1.43    | --   |                 | 1.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 4                 | 16        | 28.3    | B    |                 | 28.3                     | 14.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |      |       |      |
| PCB-114             | 3.7               | 14.8      | 1.48    | --   |                 | 1.9                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-118             | 3.46              | 13.84     | 80.5    | B    |                 | 80.5                     | 40.3  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 1.1%  |      |       |      |
| PCB-123             | 3.53              | 14.12     |         | --   |                 | 1.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 3.31              | 13.24     |         | --   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 13.3%                |       |      |       |      |
| PCB-156             | 1.76              | 7.04      | 12.9    | --   |                 | 12.9                     | 12.9  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 1.7%  |      |       |      |
| PCB-157             | 1.84              | 7.36      | 2.54    | --   |                 | 2.5                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |
| PCB-167             | 1.34              | 5.36      | 5.98    | --   |                 | 6                        | 6     | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 1.54              | 6.16      |         | --   |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |      |       |      |
| PCB-189             | 0.763             | 3.052     | 3.75    | E    |                 | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.3   | 0.2       | 0.0   | 1.2          | 0.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 338               | Duplicate | S23     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.057             | 0.228     |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0328            | 0.1312    |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0178            | 0.0712    | 0.158   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.8%                 | 2.5%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.118             | 0.472     |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 9.2%                 |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0149            | 0.0596    |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0247            | 0.0988    | 0.144   | B    | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.8%                 | 2.5%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0217            | 0.0868    | 0.279   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 5.5%                 | 7.5%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.154             | 0.616     |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0272            | 0.1088    | 0.372   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 7.3%                 | 5.0%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.194             | 0.776     |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.00641           | 0.0256    | 0.874   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 16.5%                | 22.5% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.00716           | 0.0286    | 1.61    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 29.3%                | 40.0% |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0368            | 0.1472    | 0.79    | --   |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 1.5%                 | 2.0%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0499            | 0.1996    | 0.144   | --   |                 | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0217            | 0.0868    | 2.28    | --   |                 | 2.3                      | 2.3   | 0.01           | 0.0                   | 0.0   | 4.2%                 | 5.8%  |      |       |      |
| OCDF                | 0.0171            | 0.0684    | 2.11    | B    | <5x*B           | 2.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.0118            | 0.0472    | 15      | --   |                 | 15                       | 15    | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |
| PCB-77              | 1.08              | 4.32      | 4.35    | B    | <5x*B           | 4.4                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-81              | 1.22              | 4.88      |         | --   | <5x*B           | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 0.323             | 1.292     | 20.3    | B    | <5x*B           | 20.3                     | 10.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |       |      |
| PCB-114             | 0.901             | 3.604     |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-118             | 0.318             | 1.272     | 45.5    | B    | <5x*B           | 45.5                     | 22.8  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |      |       |      |
| PCB-123             | 0.357             | 1.428     | 1.69    | BJ   | <5x*B           | 1.7                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 0.0939            | 0.3756    | 0.876   | B    | <5x*B           | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 16.5%                | 10.0% |      |       |      |
| PCB-156             | 0.23              | 0.92      | 5.09    | B    | <5x*B           | 5.1                      | 2.5   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |      |       |      |
| PCB-157             | 1.72              | 6.88      |         | E    | <5x*B           | 0.9                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-167             | 0.224             | 0.896     | 2.36    | BJ   | <5x*B           | 2.4                      | 1.2   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.0649            | 0.2596    | 0.187   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |       |      |
| PCB-189             | 0.148             | 0.592     | 0.583   | --   |                 | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.1       | 0.0   | 0.5          | 0.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 382               | Duplicate | F zone   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|----------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results  |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc     | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.41195           | 1.6478    | 0.136308 | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.21103           | 0.8441    |          | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 5.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.16963           | 0.6785    | 0.274636 | J    |                 | 0.3                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.5%  |
| 2,3,4,7,8-PeCDF     | 0.32613           | 1.3045    |          | EJ   |                 | 0.2                      |       | 0.5            | 0.1                   |       | 5.6%                 |       |
| 1,2,3,7,8-PeCDD     | 0.10703           | 0.4281    | 0.32714  | J    |                 | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 16.8%                | 9.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.1666            | 0.6664    | 0.562397 | B    | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 3.4%                 | 1.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.22819           | 0.9128    | 0.547252 | DB   | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.17972           | 0.7189    | 0.446283 | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 1.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.25949           | 1.038     | 0.397818 | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 2.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.21405           | 0.8562    | 0.401857 | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.18780           | 0.7512    | 0.721928 | --   |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.9%                 | 3.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.18477           | 0.7391    | 0.598746 | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.4%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 5.09893           | 20.396    |          | D    |                 | 1.3                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.50686           | 2.0275    |          | --   | <5x*B           | 0.3                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.09915           | 0.3966    | 17.66957 | BJ   |                 | 17.7                     | 8.8   | 0.01           | 0.2                   | 0.1   | 9.9%                 | 8.6%  |
| OCDF                | 0.20497           | 0.8199    | 14.64050 | BJ   | <5x*B           | 14.6                     | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.15650           | 0.6260    | 195.8798 | BJ   |                 | 195.9                    | 97.9  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.0%  |
| PCB-77              | 0.44628           | 1.7851    | 18.37636 | --   |                 | 18.4                     | 18.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.47253           | 1.8901    | 0.941031 | B    | <5x*B           | 0.9                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.64539           | 10.582    | 82.08779 | B    |                 | 82.1                     | 41    | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 2.58481           | 10.339    | 3.554109 | --   |                 | 3.6                      | 1.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 2.18093           | 8.7237    | 178.7151 | J    |                 | 178.7                    | 89.4  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.9%  |
| PCB-123             | 2.31219           | 9.2488    |          | --   |                 | 1.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.30695           | 1.2278    | 6.482209 | --   |                 | 6.5                      | 6.5   | 0.1            | 0.7                   | 0.7   | 36.3%                | 63.7% |
| PCB-156             | 0.31300           | 1.2520    | 33.52171 | B    |                 | 33.5                     | 16.8  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.8%  |
| PCB-157             | 0.31098           | 1.2439    | 7.825097 | B    |                 | 7.8                      | 3.9   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.28675           | 1.1470    | 17.2657  | B    |                 | 17.3                     | 8.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.14943           | 0.5977    | 0.973341 | --   |                 | 1                        | 1     | 0.01           | 0.0                   | 0.0   | 0.6%                 | 1.0%  |
| PCB-189             | 0.37762           | 1.5105    | 4.987868 | --   |                 | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.2   | 0.7       | 0.7   | 1.7          | 0.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 883 | Duplicate | SP-4 |
|-----------|-----|-----------|------|
|-----------|-----|-----------|------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.956             | 3.824  | 1.17    | NJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.141             | 0.564  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 1.9%                 |       |
| 1,2,3,7,8-PeCDF     | 0.109             | 0.436  | 7.19    | --   |                 | 7.2                      | 7.2   | 0.05           | 0.4                   | 0.4   | 6.9%                 | 8.4%  |
| 2,3,4,7,8-PeCDF     | 0.0929            | 0.3716 | 1.28    | --   |                 | 1.3                      | 1.3   | 0.5            | 0.7                   | 0.7   | 12.4%                | 15.1% |
| 1,2,3,7,8-PeCDD     | 0.415             | 1.66   |         | E    | <5x*B           | 0.2                      |       | 1              | 0.2                   |       | 3.8%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.984             | 3.936  | 13.8    | --   |                 | 13.8                     | 13.8  | 0.1            | 1.4                   | 1.4   | 26.3%                | 32.1% |
| 1,2,3,6,7,8-HxCDF   | 0.865             | 3.46   | 7.21    | --   |                 | 7.2                      | 7.2   | 0.1            | 0.7                   | 0.7   | 13.7%                | 16.8% |
| 2,3,4,6,7,8-HxCDF   | 1.09              | 4.36   | 3.27    | --   |                 | 3.3                      | 1.6   | 0.1            | 0.3                   | 0.2   | 6.3%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 1.32              | 5.28   | 3.17    | B    | <5x*B           | 3.2                      | 0.8   | 0.1            | 0.3                   | 0.1   | 6.1%                 | 1.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.433             | 1.732  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0698            | 0.2792 | 0.792   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 1.5%                 | 1.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.0696            | 0.2784 | 0.831   | J    |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 1.5%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDF | 34.4              | 137.6  |         | D    | <5x*B           | 8.6                      |       | 0.01           | 0.1                   |       | 1.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.155             | 0.62   | 16.7    | --   |                 | 16.7                     | 16.7  | 0.01           | 0.2                   | 0.2   | 3.2%                 | 3.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0864            | 0.3456 | 10.6    | --   |                 | 10.6                     | 10.6  | 0.01           | 0.1                   | 0.1   | 2.0%                 | 2.5%  |
| OCDF                | 0.0525            | 0.21   | 282     | --   |                 | 282                      | 282   | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| OCDD                | 0.0764            | 0.3056 | 86.9    | --   |                 | 86.9                     | 86.9  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 1.28              | 5.12   | 30.1    | BJ   | <5x*B           | 30.1                     | 15.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 1.42              | 5.68   | 1.68    | J    |                 | 1.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.69              | 22.76  | 116     | B    | <5x*B           | 116                      | 58    | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 5.55              | 22.2   | 5.28    | B    | <5x*B           | 2.8                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 4.56              | 18.24  | 217     | BJ   | <5x*B           | 217                      | 108.5 | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-123             | 4.83              | 19.32  |         | --   | <5x*B           | 2.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.38              | 1.52   | 4.8     | --   |                 | 4.8                      | 4.8   | 0.1            | 0.5                   | 0.5   | 9.1%                 | 11.2% |
| PCB-156             | 2.27              | 9.08   | 34.3    | B    | <5x*B           | 34.3                     | 17.2  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-157             | 2.41              | 9.64   | 12.1    | B    | <5x*B           | 12.1                     | 6.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 2.26              | 9.04   | 19.2    | B    | <5x*B           | 19.2                     | 9.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.284             | 1.136  | 0.756   | --   |                 | 0.8                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-189             | 3.19              | 12.76  | 5.8     | --   |                 | 5.8                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.8               | 3.9   | 0.5       | 0.5   | 5.3          | 4.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 364   | <i>Field Blank</i> |       | <i>f blank</i> |       |                 |                          |         |          |      |                       |       |                      |       |       |  |
|---------------------|-------|--------------------|-------|----------------|-------|-----------------|--------------------------|---------|----------|------|-----------------------|-------|----------------------|-------|-------|--|
| Analyte             | EDL   | Analytical Limits  |       | Results        |       | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |      | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |  |
|                     |       | QL                 | Conc  | Flag           | Full  |                 | Human                    | Full    | Quant    | Full | Quant                 | Full  | Quant                | Full  | Quant |  |
| 2,3,7,8-TCDF        | 1.2   | 4.8                | --    |                | 0.6   |                 | 0.1                      | 0.1     |          |      |                       |       |                      | 3.0%  |       |  |
| 2,3,7,8-TCDD        | 0.595 | 2.38               | --    |                | 0.3   |                 | 1                        | 0.3     |          |      |                       |       |                      | 14.9% |       |  |
| 1,2,3,7,8-PeCDF     | 0.491 | 1.964              | --    |                | 0.2   |                 | 0.05                     | 0.0     |          |      |                       |       |                      | 0.5%  |       |  |
| 2,3,4,7,8-PeCDF     | 0.39  | 1.56               | --    |                | 0.2   |                 | 0.5                      | 0.1     |          |      |                       |       |                      | 5.0%  |       |  |
| 1,2,3,7,8-PeCDD     | 0.717 | 2.868              | E     | <5x*B          | 0.4   |                 | 1                        | 0.4     |          |      |                       |       |                      | 19.9% |       |  |
| 1,2,3,4,7,8-HxCDF   | 0.691 | 2.764              | 0.739 | B              | <5x*B | 0.7             | 0.2                      | 0.1     | 0.1      | 0.0  | 0.0                   | 3.5%  |                      | 2.9%  |       |  |
| 1,2,3,6,7,8-HxCDF   | 0.595 | 2.38               | 0.968 | B              | <5x*B | 1               | 0.2                      | 0.1     | 0.1      | 0.0  | 0.0                   | 5.0%  |                      | 2.9%  |       |  |
| 2,3,4,6,7,8-HxCDF   | 0.782 | 3.128              | 0.671 | B              | <5x*B | 0.4             |                          | 0.1     | 0.0      |      |                       | 2.0%  |                      |       |       |  |
| 1,2,3,7,8,9-HxCDF   | 1.32  | 5.28               | 0.643 | B              | <5x*B | 0.7             |                          | 0.1     | 0.1      |      |                       | 3.5%  |                      |       |       |  |
| 1,2,3,4,7,8-HxCDD   | 0.781 | 3.124              | --    | E              |       | 0.4             |                          | 0.1     | 0.0      |      |                       | 2.0%  |                      |       |       |  |
| 1,2,3,6,7,8-HxCDD   | 0.295 | 1.18               | 1.41  | --             |       | 1.4             | 1.4                      | 0.1     | 0.1      | 0.1  | 0.1                   | 7.0%  |                      | 20.0% |       |  |
| 1,2,3,7,8,9-HxCDD   | 0.296 | 1.184              | 1.03  | J              |       | 1               | 0.3                      | 0.1     | 0.1      | 0.0  | 0.0                   | 5.0%  |                      | 4.3%  |       |  |
| 1,2,3,4,6,7,8-HpCDF | 5.58  | 22.32              | --    | D              | <5x*B | 1.4             |                          | 0.01    | 0.0      |      |                       | 0.7%  |                      |       |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.933 | 3.732              | --    | E              |       | 0.5             |                          | 0.01    | 0.0      |      |                       | 0.2%  |                      |       |       |  |
| 1,2,3,4,6,7,8-HpCDD | 0.357 | 1.428              | 38.8  | --             |       | 38.8            | 38.8                     | 0.01    | 0.4      | 0.4  | 0.4                   | 19.3% |                      | 55.5% |       |  |
| OCDF                | 0.391 | 1.564              | 13.7  | B              | <5x*B | 13.7            | 6.9                      | 0.0001  | 0.0      | 0.0  | 0.0                   | 0.1%  |                      | 0.1%  |       |  |
| OCDD                | 0.271 | 1.084              | 333   | --             |       | 333             | 333                      | 0.0001  | 0.0      | 0.0  | 0.0                   | 1.7%  |                      | 4.8%  |       |  |
| PCB-77              | 3.59  | 14.36              | 6.05  | BJ             | <5x*B | 6.1             | 1.5                      | 0.0001  | 0.0      | 0.0  | 0.0                   | 0.0%  |                      | 0.0%  |       |  |
| PCB-81              | 4.19  | 16.76              | --    | J              |       | 2.1             |                          | 0.0001  | 0.0      |      |                       | 0.0%  |                      |       |       |  |
| PCB-105             | 2.06  | 8.24               | 59.8  | B              | <5x*B | 59.8            | 29.9                     | 0.0001  | 0.0      | 0.0  | 0.0                   | 0.3%  |                      | 0.4%  |       |  |
| PCB-114             | 2.01  | 8.04               | 3.63  | B              | <5x*B | 3.6             | 0.9                      | 0.0005  | 0.0      | 0.0  | 0.0                   | 0.1%  |                      | 0.1%  |       |  |
| PCB-118             | 1.82  | 7.28               | 134   | BJ             | <5x*B | 134             | 67                       | 0.0001  | 0.0      | 0.0  | 0.0                   | 0.7%  |                      | 1.0%  |       |  |
| PCB-123             | 1.92  | 7.68               | --    | <5x*B          | 1     |                 | 0.0001                   | 0.0     |          |      |                       | 0.0%  |                      |       |       |  |
| PCB-126             | 0.264 | 1.056              | 1.03  | --             |       | 1               | 0.5                      | 0.1     | 0.1      | 0.1  | 0.1                   | 5.0%  |                      | 7.2%  |       |  |
| PCB-156             | 2.31  | 9.24               | 24.2  | B              | <5x*B | 24.2            | 12.1                     | 0.0005  | 0.0      | 0.0  | 0.0                   | 0.6%  |                      | 0.9%  |       |  |
| PCB-157             | 2.45  | 9.8                | 6.07  | B              | <5x*B | 6.1             | 1.5                      | 0.0005  | 0.0      | 0.0  | 0.0                   | 0.2%  |                      | 0.1%  |       |  |
| PCB-167             | 2.3   | 9.2                | 10.8  | B              | <5x*B | 10.8            | 5.4                      | 0.00001 | 0.0      | 0.0  | 0.0                   | 0.0%  |                      | 0.0%  |       |  |
| PCB-169             | 0.384 | 1.536              | --    |                |       | 0.2             |                          | 0.01    | 0.0      |      |                       | 0.1%  |                      |       |       |  |
| PCB-189             | 3.26  | 13.04              | 2.18  | --             |       | 1.6             |                          | 0.0001  | 0.0      |      |                       | 0.0%  |                      |       |       |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 0.5   | 0.1       | 0.1   | 1.9          | 0.6   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 487 Field Blank

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0187            | 0.0748 | 0.101   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.00373           | 0.0149 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.002             | 0.008  |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.147             | 0.588  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00374           | 0.015  | 0.626   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 36.8%                | 43.0% |
| 1,2,3,4,7,8-HxCDF   | 0.429             | 1.716  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.364             | 1.456  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0163            | 0.0652 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.304             | 1.216  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.00277           | 0.0111 | 0.967   | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 6.1%                 | 7.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.00262           | 0.0105 | 1.7     | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 10.4%                | 12.2% |
| 1,2,3,7,8,9-HxCDD   | 0.00269           | 0.0108 | 1.05    | J    |                 | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 6.7%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0477            | 0.1908 | 5.11    | --   |                 | 5.1                      | 5.1   | 0.01           | 0.1                   | 0.1   | 3.1%                 | 3.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0717            | 0.2868 | 0.445   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00208           | 0.0083 | 37.9    | --   |                 | 37.9                     | 37.9  | 0.01           | 0.4                   | 0.4   | 23.2%                | 27.1% |
| OCDF                | 0.0241            | 0.0964 | 8.27    | J    |                 | 8.3                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.00253           | 0.0101 | 295     | --   |                 | 295                      | 295   | 0.0001         | 0.0                   | 0.0   | 1.8%                 | 2.1%  |
| PCB-77              | 0.0207            | 0.0828 | 3.79    | B    | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0228            | 0.0912 | 0.372   | --   |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.275             | 1.1    | 44.2    | B    | <5x*B           | 44.2                     | 22.1  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.288             | 1.152  | 2.25    | B    | <5x*B           | 2.3                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.297             | 1.188  | 92.7    | B    | <5x*B           | 92.7                     | 46.4  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-123             | 0.337             | 1.348  | 1.62    | --   |                 | 1.6                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.848             | 3.392  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| PCB-156             | 0.159             | 0.636  | 15.8    | B    | <5x*B           | 15.8                     | 7.9   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 0.164             | 0.656  | 4.38    | B    | <5x*B           | 4.4                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.162             | 0.648  | 7.21    | B    | <5x*B           | 7.2                      | 3.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.154             | 0.616  |         | E    | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.0775            | 0.31   | 1.84    | B    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.5   | 0.0       | 0.0   | 1.6          | 1.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAMMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in<br>MB found | Adjusted Concentrations* |       | WHO TEFs<br>Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|--------------------|--------------------------|-------|-------------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                    | Full                     | Quant |                   | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.675             | 2.7    |         | --   |                    | 0.3                      |       | 0.1               | 0.0                   |       | 4.9%                 |       |
| 2,3,7,8-TCDD        | 0.268             | 1.072  |         | --   |                    | 0.1                      |       | 1                 | 0.1                   |       | 16.2%                |       |
| 1,2,3,7,8-PeCDF     | 0.37              | 1.48   |         | E    |                    | 0.2                      |       | 0.05              | 0.0                   |       | 1.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.38              | 1.52   |         | --   |                    | 0.2                      |       | 0.5               | 0.1                   |       | 16.2%                |       |
| 1,2,3,7,8-PeCDD     | 0.392             | 1.568  |         | E    |                    | 0.2                      |       | 1                 | 0.2                   |       | 32.4%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.105             | 0.42   | 0.292   | --   | <5x*B              | 0.3                      | 0.1   | 0.1               | 0.0                   | 0.0   | 4.9%                 | 14.1% |
| 1,2,3,6,7,8-HxCDF   | 0.0799            | 0.3196 | 0.34    | --   | <5x*B              | 0.3                      | 0.3   | 0.1               | 0.0                   | 0.0   | 4.9%                 | 42.2% |
| 2,3,4,6,7,8-HxCDF   | 0.103             | 0.412  | 0.207   | --   | <5x*B              | 0.2                      | 0.1   | 0.1               | 0.0                   | 0.0   | 3.2%                 | 14.1% |
| 1,2,3,7,8,9-HxCDF   | 0.648             | 2.592  |         | E    |                    | 0.3                      |       | 0.1               | 0.0                   |       | 4.9%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0445            | 0.178  |         | --   |                    | 0                        |       | 0.1               | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0379            | 0.1516 |         | --   |                    | 0                        |       | 0.1               | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0379            | 0.1516 |         | --   |                    | 0                        |       | 0.1               | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.918             | 3.672  |         | D    |                    | 0.2                      |       | 0.01              | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.26              | 1.04   | 0.296   | --   | <5x*B              | 0.3                      | 0.1   | 0.01              | 0.0                   | 0.0   | 0.5%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0386            | 0.1544 | 1.23    | --   | <5x*B              | 1.2                      | 1.2   | 0.01              | 0.0                   | 0.0   | 1.9%                 | 16.9% |
| OCDF                | 0.165             | 0.66   | 5.04    | --   | <5x*B              | 5                        | 5     | 0.0001            | 0.0                   | 0.0   | 0.1%                 | 0.7%  |
| OCDD                | 0.151             | 0.604  | 9.31    | --   | <5x*B              | 9.3                      | 9.3   | 0.0001            | 0.0                   | 0.0   | 0.2%                 | 1.3%  |
| PCB-77              | 0.823             | 3.292  | 2.4     | --   | <5x*B              | 2.4                      | 1.2   | 0.0001            | 0.0                   | 0.0   | 0.0%                 | 0.2%  |
| PCB-81              | 0.889             | 3.556  | 0.941   | --   | <5x*B              | 0.9                      | 0.5   | 0.0001            | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 1.17              | 4.68   | 11.8    | --   | <5x*B              | 11.8                     | 11.8  | 0.0001            | 0.0                   | 0.0   | 0.2%                 | 1.7%  |
| PCB-114             | 1.14              | 4.56   |         | --   |                    | 0.6                      |       | 0.0005            | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.989             | 3.956  | 31      | --   | <5x*B              | 31                       | 31    | 0.0001            | 0.0                   | 0.0   | 0.5%                 | 4.4%  |
| PCB-123             | 1.05              | 4.2    |         | --   |                    | 0.5                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.877             | 3.508  |         | --   |                    | 0.4                      |       | 0.1               | 0.0                   |       | 6.5%                 |       |
| PCB-156             | 0.617             | 2.468  | 3.96    | --   | <5x*B              | 4                        | 4     | 0.0005            | 0.0                   | 0.0   | 0.3%                 | 2.8%  |
| PCB-157             | 0.612             | 2.448  | 0.992   | --   | <5x*B              | 1                        | 0.5   | 0.0005            | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-167             | 0.517             | 2.068  | 1.36    | --   | <5x*B              | 1.4                      | 0.7   | 0.00001           | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.417             | 1.668  |         | --   |                    | 0.2                      |       | 0.01              | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.462             | 1.848  |         | E    |                    | 0.2                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.0   | 0.0       | 0.0   | 0.4          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAANLM | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.526             | 2.104  |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 2,3,7,8-TCDD        | 0.139             | 0.556  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 11.1%                |       |
| 1,2,3,7,8-PeCDF     | 0.406             | 1.624  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 1.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.286             | 1.144  |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 5.6%                 |       |
| 1,2,3,7,8-PeCDD     | 0.162             | 0.648  | 0.424   | --   |                 | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 44.5%                | 60.1% |
| 1,2,3,4,7,8-HxCDF   | 0.308             | 1.232  | 0.372   | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.5%                 | 6.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.276             | 1.104  | 0.344   | --   |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 6.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.324             | 1.296  | 0.326   | --   |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 6.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.422             | 1.688  | 0.64    | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 6.7%                 | 9.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.258             | 1.032  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.185             | 0.74   |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.187             | 0.748  |         | J    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.167             | 0.668  | 0.802   | --   |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 0.9%                 | 2.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.506             | 2.024  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.124             | 0.496  | 1.01    | --   |                 | 1                        | 1     | 0.01           | 0.0                   | 0.0   | 1.1%                 | 3.0%  |
| OCDF                | 0.358             | 1.432  | 8.34    | --   |                 | 8.3                      | 8.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0292            | 0.1168 | 6.78    | --   |                 | 6.8                      | 6.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 2.12              | 8.48   | 6.28    | J    |                 | 6.3                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 2.42              | 9.68   |         | J    |                 | 1.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 5.44              | 21.76  | 40.5    | --   |                 | 40.5                     | 40.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.2%  |
| PCB-114             | 0.66              | 2.64   | 3.36    | --   |                 | 3.4                      | 3.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-118             | 4.12              | 16.48  | 108     | --   |                 | 108                      | 108   | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 3.2%  |
| PCB-123             | 4.35              | 17.4   | 5.21    | --   |                 | 5.2                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 1.37              | 5.48   |         | --   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 7.8%                 |       |
| PCB-156             | 2.07              | 8.28   | 10.7    | --   |                 | 10.7                     | 10.7  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 1.6%  |
| PCB-157             | 2.2               | 8.8    | 3.24    | --   |                 | 3.2                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 2.06              | 8.24   | 11.3    | --   |                 | 11.3                     | 11.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.29              | 1.16   |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 1.57              | 6.28   |         | --   |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.2   | 0.1       | 0.0   | 0.8          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAOMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0413            | 0.1652 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00611           | 0.0244 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0463            | 0.1852 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0424            | 0.1696 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.111             | 0.444  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 30.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.425             | 1.7    |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 6.1%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.352             | 1.408  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 6.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0135            | 0.054  | 0.34    | --   | <5x*B           | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 9.2%                 | 26.0% |
| 1,2,3,7,8,9-HxCDF   | 0.0148            | 0.0592 | 0.694   | --   | <5x*B           | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 21.4%                | 60.6% |
| 1,2,3,4,7,8-HxCDD   | 0.00975           | 0.039  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00849           | 0.034  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00825           | 0.033  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.657             | 2.628  |         | D    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0472            | 0.1888 | 0.513   | --   | <5x*B           | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 1.5%                 | 4.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.684             | 2.736  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| OCDF                | 0.00617           | 0.0247 | 6.46    | --   | <5x*B           | 6.5                      | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.6%  |
| OCDD                | 0.0114            | 0.0456 | 4.98    | --   | <5x*B           | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-77              | 0.214             | 0.856  | 2.42    | --   | <5x*B           | 2.4                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.219             | 0.876  |         | J    |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.355             | 1.42   | 22.7    | J    | <5x*B           | 22.7                     | 11.4  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.0%  |
| PCB-114             | 0.348             | 1.392  | 1.49    | --   | <5x*B           | 1.5                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.6%  |
| PCB-118             | 0.315             | 1.26   | 57.9    | J    | <5x*B           | 57.9                     | 29    | 0.0001         | 0.0                   | 0.0   | 1.8%                 | 2.5%  |
| PCB-123             | 0.344             | 1.376  | 0.997   | --   | <5x*B           | 1                        | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.27              | 5.08   |         | --   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 18.4%                |       |
| PCB-156             | 0.0838            | 0.3352 | 6.83    | --   | <5x*B           | 6.8                      | 6.8   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 2.9%  |
| PCB-157             | 0.0872            | 0.3488 | 1.54    | --   | <5x*B           | 1.5                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.6%  |
| PCB-167             | 0.0771            | 0.3084 | 2.29    | --   | <5x*B           | 2.3                      | 2.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.329             | 1.316  |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| PCB-189             | 0.0446            | 0.1784 | 0.664   | --   | <5x*B           | 0.7                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.1       | 0.0   | 0.3          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAQMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.115             | 0.46   |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 2,3,7,8-TCDD        | 0.117             | 0.468  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 32.9%                |       |
| 1,2,3,7,8-PeCDF     | 0.123             | 0.492  |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.116             | 0.464  |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 16.4%                |       |
| 1,2,3,7,8-PeCDD     | 0.106             | 0.424  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 32.9%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0579            | 0.2316 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0528            | 0.2112 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0978            | 0.3912 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.17              | 0.68   |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0767            | 0.3068 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.068             | 0.272  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0679            | 0.2716 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.33              | 1.32   |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.111             | 0.444  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.838             | 3.352  |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 1.3%                 |       |
| OCDF                | 0.224             | 0.896  |         | I    |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.0347            | 0.1388 | 8.28    | I    | <5x*B           | 8.3                      | 8.3   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 8.6%  |
| PCB-77              | 0.201             | 0.804  | 18.2    | --   | <5x*B           | 18.2                     | 18.2  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 18.9% |
| PCB-81              | 0.176             | 0.704  | 1.1     | --   | <5x*B           | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 1.1%  |
| PCB-105             | 0.354             | 1.416  | 17.2    | --   | <5x*B           | 17.2                     | 17.2  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 17.9% |
| PCB-114             | 1.08              | 4.32   |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 0.301             | 1.204  | 45.9    | J    | <5x*B           | 45.9                     | 23    | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 23.9% |
| PCB-123             | 0.329             | 1.316  | 0.51    | --   | <5x*B           | 0.5                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.3%  |
| PCB-126             | 0.252             | 1.008  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| PCB-156             | 0.231             | 0.924  | 4.63    | --   | <5x*B           | 4.6                      | 4.6   | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 23.9% |
| PCB-157             | 0.241             | 0.964  | 0.985   | --   | <5x*B           | 1                        | 1     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 5.2%  |
| PCB-167             | 1.79              | 7.16   |         | E    |                 | 0.9                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.0796            | 0.3184 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.123             | 0.492  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.0   | 0.0       | 0.0   | 0.3          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAARMB | Lab Blank |
|-----------|--------|-----------|
|-----------|--------|-----------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.11              | 0.44   |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |
| 2,3,7,8-TCDD        | 0.124             | 0.496  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 20.6%                |       |
| 1,2,3,7,8-PeCDF     | 0.17              | 0.68   |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.144             | 0.576  |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 10.3%                |       |
| 1,2,3,7,8-PeCDD     | 0.218             | 0.872  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 20.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.255             | 1.02   |         | EI   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.1%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.077             | 0.308  | 0.316   | I    | <5x*B           | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.2%                 | 29.4% |
| 2,3,4,6,7,8-HxCDF   | 0.666             | 2.664  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 6.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.294             | 1.176  | 0.937   | --   | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 18.6%                | 48.9% |
| 1,2,3,4,7,8-HxCDD   | 0.07              | 0.28   |         | I    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0697            | 0.2788 |         | I    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0762            | 0.3048 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0726            | 0.2904 | 0.662   | I    | <5x*B           | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 1.4%                 | 6.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.215             | 0.86   |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.951             | 3.804  |         | E    |                 | 0.5                      |       | 0.01           | 0.0                   |       | 1.0%                 |       |
| OCDF                | 0.501             | 2.004  | 3.55    | --   | <5x*B           | 3.6                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| OCDD                | 0.643             | 2.572  | 6.65    | --   | <5x*B           | 6.7                      | 6.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.7%  |
| PCB-77              | 0.17              | 0.68   | 4.72    | --   | <5x*B           | 4.7                      | 4.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.5%  |
| PCB-81              | 0.161             | 0.644  | 0.882   | --   | <5x*B           | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.137             | 0.548  | 24.3    | --   | <5x*B           | 24.3                     | 24.3  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 2.4%  |
| PCB-114             | 1.77              | 7.08   |         | E    |                 | 0.9                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 0.118             | 0.472  | 56      | --   | <5x*B           | 56                       | 56    | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 5.5%  |
| PCB-123             | 0.134             | 0.536  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.616             | 2.464  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 6.2%                 |       |
| PCB-156             | 0.0821            | 0.3284 | 7.11    | --   | <5x*B           | 7.1                      | 7.1   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 3.5%  |
| PCB-157             | 0.0827            | 0.3308 | 2.04    | --   | <5x*B           | 2                        | 2     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 1.0%  |
| PCB-167             | 0.0785            | 0.314  | 2.9     | --   | <5x*B           | 2.9                      | 2.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.113             | 0.452  | 0.234   | --   | <5x*B           | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 1.0%  |
| PCB-189             | 1.51              | 6.04   |         | E    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.1   | 0.0       | 0.0   | 0.4          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAASMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0758            | 0.3032 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0973            | 0.3892 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.111             | 0.444  | 0.386   | --   | <5x*B           | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 5.3%                 | 5.7%  |
| 2,3,4,7,8-PeCDF     | 0.115             | 0.46   |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 13.3%                |       |
| 1,2,3,7,8-PeCDD     | 0.165             | 0.66   |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 26.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.261             | 1.044  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.41              | 1.64   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 5.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0984            | 0.3936 | 0.452   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 13.3%                | 28.7% |
| 1,2,3,7,8,9-HxCDF   | 0.206             | 0.824  | 0.873   | --   | <5x*B           | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 23.9%                | 51.6% |
| 1,2,3,4,7,8-HxCDD   | 0.0608            | 0.2432 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0512            | 0.2048 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.061             | 0.244  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0696            | 0.2784 | 0.567   | --   | <5x*B           | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 1.6%                 | 3.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.164             | 0.656  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0847            | 0.3388 | 0.934   | --   | <5x*B           | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 2.4%                 | 5.2%  |
| OCDF                | 0.308             | 1.232  | 2.98    | --   | <5x*B           | 3                        | 3     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.366             | 1.464  | 4.15    | --   | <5x*B           | 4.2                      | 4.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 0.285             | 1.14   | 4.96    | --   | <5x*B           | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-81              | 0.261             | 1.044  | 0.81    | --   | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.13              | 0.52   | 13.2    | --   | <5x*B           | 13.2                     | 13.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.8%  |
| PCB-114             | 0.133             | 0.532  | 0.808   | --   | <5x*B           | 0.8                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.11              | 0.44   | 26.6    | --   | <5x*B           | 26.6                     | 26.6  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.5%  |
| PCB-123             | 0.128             | 0.512  | 0.382   | --   | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.156             | 0.624  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.7%                 |       |
| PCB-156             | 3.53              | 14.12  |         | E    |                 | 1.8                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-157             | 0.103             | 0.412  | 1.06    | --   | <5x*B           | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-167             | 0.0943            | 0.3772 | 1.15    | --   | <5x*B           | 1.2                      | 1.2   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0591            | 0.2364 | 0.28    | --   | <5x*B           | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 1.7%  |
| PCB-189             | 0.0551            | 0.2204 | 0.316   | --   | <5x*B           | 0.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.0       | 0.0   | 0.4          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAATMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0472            | 0.1888 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0635            | 0.254  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.209             | 0.836  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 2.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0832            | 0.3328 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.287             | 1.148  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 41.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0416            | 0.1664 | 0.141   | --   | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.2%                 | 9.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.229             | 0.916  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.257             | 1.028  |         | EI   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 4.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0477            | 0.1908 | 0.521   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 20.8%                | 48.8% |
| 1,2,3,4,7,8-HxCDD   | 0.0629            | 0.2516 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0503            | 0.2012 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.061             | 0.244  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0408            | 0.1632 | 0.392   | J    | <5x*B           | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 1.7%                 | 2.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0785            | 0.314  |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0516            | 0.2064 | 0.912   | --   | <5x*B           | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 3.7%                 | 8.8%  |
| OCDF                | 0.138             | 0.552  | 0.863   | --   | <5x*B           | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.2               | 0.8    | 7.25    | --   | <5x*B           | 7.3                      | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.7%  |
| PCB-77              | 0.262             | 1.048  | 3.95    | --   | <5x*B           | 4                        | 4     | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-81              | 1.13              | 4.52   |         | E    |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.52              | 2.08   | 18.5    | --   | <5x*B           | 18.5                     | 18.5  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.8%  |
| PCB-114             | 0.517             | 2.068  | 1.12    | --   | <5x*B           | 1.1                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-118             | 0.43              | 1.72   | 50      | --   | <5x*B           | 50                       | 50    | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 4.9%  |
| PCB-123             | 1.81              | 7.24   |         | E    |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.175             | 0.7    | 0.332   | --   | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 12.5%                | 19.5% |
| PCB-156             | 0.116             | 0.464  | 4.61    | --   | <5x*B           | 4.6                      | 4.6   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 2.2%  |
| PCB-157             | 0.122             | 0.488  | 1.32    | --   | <5x*B           | 1.3                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.6%  |
| PCB-167             | 0.113             | 0.452  | 2.07    | --   | <5x*B           | 2.1                      | 2.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.227             | 0.908  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| PCB-189             | 0.0894            | 0.3576 | 0.384   | --   | <5x*B           | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.0       | 0.0   | 0.2          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAUMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0877            | 0.3508 | 0.123   | --   | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.9%                 | 9.7%  |
| 2,3,7,8-TCDD        | 0.147             | 0.588  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 29.4%                |       |
| 1,2,3,7,8-PeCDF     | 0.175             | 0.7    |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0851            | 0.3404 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.281             | 1.124  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 29.4%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0676            | 0.2704 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0354            | 0.1416 | 0.15    | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 19.4% |
| 2,3,4,6,7,8-HxCDF   | 0.039             | 0.156  | 0.155   | --   | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 9.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0455            | 0.182  | 0.473   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 14.7%                | 48.4% |
| 1,2,3,4,7,8-HxCDD   | 0.185             | 0.74   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0542            | 0.2168 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0529            | 0.2116 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0733            | 0.2932 | 0.12    | --   | <5x*B           | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 1.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.099             | 0.396  |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0525            | 0.21   | 0.447   | --   | <5x*B           | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 1.2%                 | 3.9%  |
| OCDF                | 0.0508            | 0.2032 | 0.226   | --   | <5x*B           | 0.2                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.075             | 0.3    | 2.15    | --   | <5x*B           | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 0.16              | 0.64   | 4.78    | --   | <5x*B           | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.5%  |
| PCB-81              | 0.203             | 0.812  | 0.957   | --   | <5x*B           | 1                        | 1     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.222             | 0.888  | 17      | --   | <5x*B           | 17                       | 17    | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.6%  |
| PCB-114             | 0.221             | 0.884  |         | --   |                 | 0.1                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.18              | 0.72   | 40.2    | --   | <5x*B           | 40.2                     | 40.2  | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 3.9%  |
| PCB-123             | 1.29              | 5.16   |         | E    |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.296             | 1.184  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.9%                 |       |
| PCB-156             | 0.229             | 0.916  | 3.3     | --   | <5x*B           | 3.3                      | 3.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 1.6%  |
| PCB-157             | 1.07              | 4.28   |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.222             | 0.888  | 1.52    | --   | <5x*B           | 1.5                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.127             | 0.508  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.295             | 1.18   |         | E    |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.1   | 0.0       | 0.0   | 0.3          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAWMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00879           | 0.0352 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00244           | 0.0098 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00133           | 0.0053 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00102           | 0.0041 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00137           | 0.0055 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.00094           | 0.0038 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.181             | 0.724  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 9.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.00098           | 0.0039 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.00117           | 0.0047 | 0.568   | --   | <5x*B           | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 56.8%                | 63.0% |
| 1,2,3,4,7,8-HxCDD   | 0.00159           | 0.0064 | 0.228   | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 18.9%                | 21.0% |
| 1,2,3,6,7,8-HxCDD   | 0.00165           | 0.0066 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00169           | 0.0068 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.00107           | 0.0043 | 0.194   | --   | <5x*B           | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 1.9%                 | 2.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.00166           | 0.0066 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.00145           | 0.0058 | 0.468   | --   | <5x*B           | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 4.7%                 | 5.2%  |
| OCDF                | 0.00051           | 0.0020 |         | --   |                 | 0                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.00148           | 0.0059 | 2.23    | --   | <5x*B           | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 0.0602            | 0.2408 | 3.61    | --   | <5x*B           | 3.6                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-81              | 0.0603            | 0.2412 | 0.689   | --   | <5x*B           | 0.7                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-105             | 0.581             | 2.324  | 15.1    | --   | <5x*B           | 15.1                     | 15.1  | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.6%  |
| PCB-114             | 0.578             | 2.312  | 1.08    | --   | <5x*B           | 1.1                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-118             | 0.5               | 2      | 36.9    | --   | <5x*B           | 36.9                     | 36.9  | 0.0001         | 0.0                   | 0.0   | 3.5%                 | 3.9%  |
| PCB-123             | 2.15              | 8.6    |         | E    |                 | 1.1                      |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-126             | 0.0723            | 0.2892 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| PCB-156             | 0.194             | 0.776  | 3.38    | --   | <5x*B           | 3.4                      | 3.4   | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 1.8%  |
| PCB-157             | 0.204             | 0.816  | 0.884   | --   | <5x*B           | 0.9                      | 0.9   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-167             | 0.188             | 0.752  | 1.13    | --   | <5x*B           | 1.1                      | 1.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0358            | 0.1432 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.345             | 1.38   |         | E    |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.0       | 0.0   | 0.1          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAXMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0496            | 0.1984 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.065             | 0.26   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0452            | 0.1808 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0374            | 0.1496 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0946            | 0.3784 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0258            | 0.1032 | 0.0848  | --   | <5x*B           | 0.1                      | 0     | 0.1            | 0.0                   | 0.0   | 7.8%                 | 0.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.165             | 0.66   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 7.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0257            | 0.1028 | 0.122   | --   | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 7.8%                 | 12.4% |
| 1,2,3,7,8,9-HxCDF   | 0.0301            | 0.1204 | 0.529   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 39.0%                | 62.1% |
| 1,2,3,4,7,8-HxCDD   | 0.0328            | 0.1312 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0267            | 0.1068 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0303            | 0.1212 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.187             | 0.748  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0969            | 0.3876 |         | E    |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.472             | 1.888  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 1.6%                 |       |
| OCDF                | 0.0492            | 0.1968 | 0.542   | --   | <5x*B           | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 2.16              | 8.64   |         | E    |                 | 1.1                      |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-77              | 0.0986            | 0.3944 | 3.88    | --   | <5x*B           | 3.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-81              | 0.104             | 0.416  | 0.774   | --   | <5x*B           | 0.8                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-105             | 0.602             | 2.408  | 26.4    | --   | <5x*B           | 26.4                     | 26.4  | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 3.3%  |
| PCB-114             | 0.982             | 3.928  |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-118             | 0.541             | 2.164  | 61.9    | J    | <5x*B           | 61.9                     | 31    | 0.0001         | 0.0                   | 0.0   | 4.8%                 | 3.9%  |
| PCB-123             | 0.608             | 2.432  | 1.38    | --   | <5x*B           | 1.4                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 0.147             | 0.588  | 0.288   | --   | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 23.4%                | 12.4% |
| PCB-156             | 0.287             | 1.148  | 6.46    | --   | <5x*B           | 6.5                      | 6.5   | 0.0005         | 0.0                   | 0.0   | 2.5%                 | 4.0%  |
| PCB-157             | 0.303             | 1.212  | 1.8     | --   | <5x*B           | 1.8                      | 1.8   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-167             | 0.279             | 1.116  | 1.83    | J    | <5x*B           | 1.8                      | 0.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.163             | 0.652  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| PCB-189             | 0.512             | 2.048  |         | E    |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.0       | 0.0   | 0.1          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAYMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0534            | 0.2136 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0185            | 0.074  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0857            | 0.3428 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.067             | 0.268  |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.116             | 0.464  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 59.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0371            | 0.1484 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0315            | 0.126  | 0.422   | --   | <5x*B           | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 23.9%                | 80.0% |
| 2,3,4,6,7,8-HxCDF   | 0.0547            | 0.2188 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0811            | 0.3244 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0179            | 0.0716 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0142            | 0.0568 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0164            | 0.0656 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0559            | 0.2236 | 0.455   | --   | <5x*B           | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 3.0%                 | 10.0% |
| 1,2,3,4,7,8,9-HpCDF | 0.133             | 0.532  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.685             | 2.74   |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 1.8%                 |       |
| OCDF                | 1.56              | 6.24   |         | E    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 4.07              | 16.28  |         | E    |                 | 2                        |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-77              | 0.0853            | 0.3412 | 2.71    | --   | <5x*B           | 2.7                      | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-81              | 0.108             | 0.432  | 0.896   | --   | <5x*B           | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-105             | 0.417             | 1.668  | 11.5    | --   | <5x*B           | 11.5                     | 11.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 2.3%  |
| PCB-114             | 0.436             | 1.744  | 1.08    | --   | <5x*B           | 1.1                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-118             | 0.44              | 1.76   | 25.9    | J    | <5x*B           | 25.9                     | 13    | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 2.6%  |
| PCB-123             | 0.5               | 2      | 0.776   | --   | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 0.133             | 0.532  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 6.0%                 |       |
| PCB-156             | 0.417             | 1.668  | 3.17    | --   | <5x*B           | 3.2                      | 3.2   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 3.2%  |
| PCB-157             | 0.431             | 1.724  | 1.11    | --   | <5x*B           | 1.1                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.6%  |
| PCB-167             | 0.424             | 1.696  | 1.59    | --   | <5x*B           | 1.6                      | 0.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.124             | 0.496  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| PCB-189             | 0.207             | 0.828  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.0       | 0.0   | 0.1          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAZMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0347            | 0.1388 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.035             | 0.14   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0401            | 0.1604 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.033             | 0.132  |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0977            | 0.3908 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0134            | 0.0536 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0118            | 0.0472 | 0.168   | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 15.6%                | 18.8% |
| 2,3,4,6,7,8-HxCDF   | 0.138             | 0.552  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 7.8%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0151            | 0.0604 | 0.545   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 39.0%                | 47.0% |
| 1,2,3,4,7,8-HxCDD   | 0.00585           | 0.0234 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00439           | 0.0176 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00514           | 0.0206 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.172             | 0.688  |         | EI   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0316            | 0.1264 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.00389           | 0.0156 | 0.57    | --   | <5x*B           | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 4.7%                 | 5.6%  |
| OCDF                | 0.0284            | 0.1136 | 0.592   | --   | <5x*B           | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0178            | 0.0712 | 5.14    | --   | <5x*B           | 5.1                      | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-77              | 0.0677            | 0.2708 | 4.36    | --   | <5x*B           | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-81              | 0.0915            | 0.366  | 0.838   | --   | <5x*B           | 0.8                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-105             | 0.539             | 2.156  | 57      | --   | <5x*B           | 57                       | 57    | 0.0001         | 0.0                   | 0.0   | 4.4%                 | 5.4%  |
| PCB-114             | 0.536             | 2.144  | 4.09    | --   | <5x*B           | 4.1                      | 4.1   | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 1.9%  |
| PCB-118             | 0.504             | 2.016  | 170     | --   | <5x*B           | 170                      | 170   | 0.0001         | 0.0                   | 0.0   | 13.2%                | 16.0% |
| PCB-123             | 0.567             | 2.268  | 2.86    | --   | <5x*B           | 2.9                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-126             | 0.159             | 0.636  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 7.8%                 |       |
| PCB-156             | 0.13              | 0.52   | 6.96    | --   | <5x*B           | 7                        | 7     | 0.0005         | 0.0                   | 0.0   | 2.7%                 | 3.3%  |
| PCB-157             | 0.137             | 0.548  | 1.34    | --   | <5x*B           | 1.3                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-167             | 0.126             | 0.504  | 2.48    | --   | <5x*B           | 2.5                      | 2.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.128             | 0.512  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| PCB-189             | 0.111             | 0.444  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.1   | 0.0       | 0.0   | 0.1          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAAMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.592             | 2.368 |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,7,8-TCDD        | 0.934             | 3.736 |         | --   |                 | 0.5                      |       | 1              | 0.5                   |       | 28.2%                |       |
| 1,2,3,7,8-PeCDF     | 0.658             | 2.632 |         | --   |                 | 0.3                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.59              | 2.36  |         | --   |                 | 0.3                      |       | 0.5            | 0.2                   |       | 8.5%                 |       |
| 1,2,3,7,8-PeCDD     | 1.216             | 4.864 |         | --   |                 | 0.6                      |       | 1              | 0.6                   |       | 33.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.62              | 2.48  |         | I    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.748             | 2.992 |         | --   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 1.338             | 5.352 |         | --   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 3.9%                 |       |
| 1,2,3,7,8,9-HxCDF   | 2.46              | 9.84  |         | --   |                 | 1.2                      |       | 0.1            | 0.1                   |       | 6.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 1.012             | 4.048 |         | I    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 2.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.99              | 3.96  |         | I    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 2.8%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.882             | 3.528 |         | IJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.944             | 3.776 |         | --   |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 2.5               | 10    |         | --   |                 | 1.3                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 2.38              | 9.52  |         | --   |                 | 1.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| OCDF                | 4.84              | 19.36 |         | J    |                 | 2.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 5.08              | 20.32 |         | --   |                 | 2.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-77              | 0.432             | 1.728 | 5.62    | --   | <5x*B           | 5.6                      | 5.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 5.5%  |
| PCB-81              | 0.378             | 1.512 |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.385             | 1.54  | 31.3    | J    | <5x*B           | 31.3                     | 15.7  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 15.5% |
| PCB-114             | 2.74              | 10.96 |         | E    |                 | 1.4                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.481             | 1.924 | 82.7    | J    | <5x*B           | 82.7                     | 41.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 41.0% |
| PCB-123             | 0.547             | 2.188 |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.686             | 2.744 |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| PCB-156             | 0.355             | 1.42  | 5.77    | --   | <5x*B           | 5.8                      | 5.8   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 28.7% |
| PCB-157             | 0.367             | 1.468 | 1.83    | --   | <5x*B           | 1.8                      | 1.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 8.9%  |
| PCB-167             | 0.361             | 1.444 | 2.86    | --   | <5x*B           | 2.9                      | 2.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.3%  |
| PCB-169             | 0.268             | 1.072 |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.729             | 2.916 |         | E    |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.7               |       | 0.0       | 0.0   | 1.7          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBABMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0746            | 0.2984 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0688            | 0.2752 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0776            | 0.3104 | 0.1372  | --   | <5x*B           | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.9%                 | 2.3%  |
| 2,3,4,7,8-PeCDF     | 0.0664            | 0.2656 | 0.084   | --   | <5x*B           | 0.1                      | 0     | 0.5            | 0.1                   | 0.0   | 9.4%                 | 0.0%  |
| 1,2,3,7,8-PeCDD     | 0.1016            | 0.4064 | 0.296   | --   | <5x*B           | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 56.7%                | 45.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0486            | 0.1944 | 0.0506  | --   | <5x*B           | 0.1                      | 0     | 0.1            | 0.0                   | 0.0   | 1.9%                 | 0.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0424            | 0.1696 | 0.1938  | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.8%                 | 9.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0516            | 0.2064 | 0.1526  | --   | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.8%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0536            | 0.2144 | 0.514   | --   | <5x*B           | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 9.4%                 | 22.9% |
| 1,2,3,4,7,8-HxCDD   | 0.218             | 0.872  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0732            | 0.2928 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0478            | 0.1912 | 0.0802  | J    | <5x*B           | 0.1                      | 0     | 0.1            | 0.0                   | 0.0   | 1.9%                 | 0.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0448            | 0.1792 | 0.1482  | --   | <5x*B           | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0672            | 0.2688 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0578            | 0.2312 | 0.558   | --   | <5x*B           | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 1.1%                 | 2.7%  |
| OCDF                | 0.0642            | 0.2568 | 0.288   | --   | <5x*B           | 0.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0954            | 0.3816 | 3.26    | --   | <5x*B           | 3.3                      | 3.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-77              | 0.122             | 0.488  | 2.01    | --   | <5x*B           | 2                        | 2     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.146             | 0.584  | 1.08    | --   | <5x*B           | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.206             | 0.824  | 11.4    | --   | <5x*B           | 11.4                     | 11.4  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-114             | 0.896             | 3.584  |         | E    |                 | 0.4                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.245             | 0.98   | 24.6    | --   | <5x*B           | 24.6                     | 24.6  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.1%  |
| PCB-123             | 1.13              | 4.52   |         | E    |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.123             | 0.492  | 0.407   | --   | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 7.6%                 | 9.2%  |
| PCB-156             | 0.152             | 0.608  | 3.08    | --   | <5x*B           | 3.1                      | 3.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.7%  |
| PCB-157             | 0.158             | 0.632  | 0.774   | --   | <5x*B           | 0.8                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-167             | 0.155             | 0.62   | 1.16    | --   | <5x*B           | 1.2                      | 1.2   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.276             | 1.104  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.0852            | 0.3408 | 0.213   | --   | <5x*B           | 0.2                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.2   | 0.0       | 0.0   | 0.5          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBACMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0506            | 0.2024 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.059             | 0.236  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.105             | 0.42   |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0803            | 0.3212 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.57              | 2.28   |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 58.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0783            | 0.3132 | 0.219   | --   | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.9%                 | 8.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.258             | 1.032  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0742            | 0.2968 | 0.299   | --   | <5x*B           | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 5.9%                 | 24.3% |
| 1,2,3,7,8,9-HxCDF   | 0.0987            | 0.3948 | 0.588   | --   | <5x*B           | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 11.7%                | 48.6% |
| 1,2,3,4,7,8-HxCDD   | 0.534             | 2.136  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 5.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.273             | 1.092  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.146             | 0.584  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.357             | 1.428  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.314             | 1.256  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0256            | 0.1024 | 0.778   | --   | <5x*B           | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 1.6%                 | 6.5%  |
| OCDF                | 0.0622            | 0.2488 | 0.496   | J    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0847            | 0.3388 | 3.92    | --   | <5x*B           | 3.9                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-77              | 0.102             | 0.408  | 5.17    | --   | <5x*B           | 5.2                      | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-81              | 0.128             | 0.512  | 1.52    | --   | <5x*B           | 1.5                      | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.172             | 0.688  | 13.4    | --   | <5x*B           | 13.4                     | 13.4  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 1.1%  |
| PCB-114             | 0.18              | 0.72   | 1.09    | --   | <5x*B           | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-118             | 0.195             | 0.78   | 30.7    | --   | <5x*B           | 30.7                     | 30.7  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 2.5%  |
| PCB-123             | 0.222             | 0.888  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.251             | 1.004  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| PCB-156             | 0.172             | 0.688  | 3.35    | --   | <5x*B           | 3.4                      | 3.4   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 1.4%  |
| PCB-157             | 0.177             | 0.708  | 1.1     | --   | <5x*B           | 1.1                      | 1.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-167             | 0.175             | 0.7    | 1.52    | --   | <5x*B           | 1.5                      | 1.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.137             | 0.548  | 0.73    | --   | <5x*B           | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 1.4%                 | 5.7%  |
| PCB-189             | 0.109             | 0.436  | 0.555   | --   | <5x*B           | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.1   | 0.0       | 0.0   | 0.4          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBADMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.107             | 0.428  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.6%                 |       |
| 2,3,7,8-TCDD        | 0.0194            | 0.0776 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.121             | 0.484  |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0831            | 0.3324 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.137             | 0.548  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 35.9%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.233             | 0.932  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.268             | 1.072  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0753            | 0.3012 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.102             | 0.408  | 0.703   | --   | <5x*B           | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 25.1%                | 54.9% |
| 1,2,3,4,7,8-HxCDD   | 0.0609            | 0.2436 | 0.36    | --   | <5x*B           | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 14.4%                | 31.4% |
| 1,2,3,6,7,8-HxCDD   | 0.0551            | 0.2204 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0602            | 0.2408 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0291            | 0.1164 | 0.512   | I    | <5x*B           | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 1.8%                 | 3.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.368             | 1.472  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.016             | 0.064  | 0.715   | --   | <5x*B           | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 2.5%                 | 5.5%  |
| OCDF                | 0.103             | 0.412  | 1.9     | J    | <5x*B           | 1.9                      | 1     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0524            | 0.2096 | 5.01    | --   | <5x*B           | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-77              | 0.105             | 0.42   | 4.78    | --   | <5x*B           | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-81              | 0.103             | 0.412  | 1.09    | --   | <5x*B           | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.21              | 0.84   | 11.7    | --   | <5x*B           | 11.7                     | 11.7  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.9%  |
| PCB-114             | 0.219             | 0.876  | 1.04    | --   | <5x*B           | 1                        | 1     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-118             | 0.242             | 0.968  | 30      | J    | <5x*B           | 30                       | 15    | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.2%  |
| PCB-123             | 0.275             | 1.1    | 0.607   | --   | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.227             | 0.908  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.6%                 |       |
| PCB-156             | 0.294             | 1.176  | 2.41    | --   | <5x*B           | 2.4                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.9%  |
| PCB-157             | 0.746             | 2.984  |         | E    |                 | 0.4                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 1.17              | 4.68   |         | E    |                 | 0.6                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.357             | 1.428  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| PCB-189             | 0.158             | 0.632  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.1   | 0.0       | 0.0   | 0.2          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAEMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0369            | 0.1476 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00908           | 0.0363 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.404             | 1.616  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 1.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0192            | 0.0768 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.654             | 2.616  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 53.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.244             | 0.976  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.00915           | 0.0366 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.011             | 0.044  | 0.328   | --   | <5x*B           | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 5.4%                 | 21.6% |
| 1,2,3,7,8,9-HxCDF   | 0.016             | 0.064  | 0.775   | --   | <5x*B           | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 14.3%                | 57.6% |
| 1,2,3,4,7,8-HxCDD   | 0.503             | 2.012  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 5.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.325             | 1.3    |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 3.6%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.166             | 0.664  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.588             | 2.352  |         | EI   |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.292             | 1.168  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.76              | 3.04   |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| OCDF                | 1.39              | 5.56   |         | E    |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.0502            | 0.2008 | 3.82    | --   | <5x*B           | 3.8                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-77              | 0.0985            | 0.394  | 3.47    | --   | <5x*B           | 3.5                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.3%  |
| PCB-81              | 0.0948            | 0.3792 | 0.914   | --   | <5x*B           | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             | 0.58              | 2.32   | 18.5    | --   | <5x*B           | 18.5                     | 18.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 1.3%  |
| PCB-114             | 0.606             | 2.424  |         | --   |                 | 0.3                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.665             | 2.66   | 40.6    | --   | <5x*B           | 40.6                     | 40.6  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 2.9%  |
| PCB-123             | 0.756             | 3.024  |         | --   |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.148             | 0.592  | 0.488   | --   | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 8.9%                 | 14.4% |
| PCB-156             | 0.448             | 1.792  | 4.54    | --   | <5x*B           | 4.5                      | 4.5   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 1.6%  |
| PCB-157             | 1.45              | 5.8    |         | E    |                 | 0.7                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 1.84              | 7.36   |         | E    |                 | 0.9                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.466             | 1.864  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| PCB-189             | 0.153             | 0.612  |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.1   | 0.1       | 0.0   | 0.5          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAFMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0541            | 0.2164 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0547            | 0.2188 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0808            | 0.3232 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0702            | 0.2808 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.123             | 0.492  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 53.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0263            | 0.1052 | 0.137   | --   | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 5.3%                 | 38.1% |
| 1,2,3,6,7,8-HxCDF   | 0.208             | 0.832  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 5.3%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.035             | 0.14   |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.705             | 2.82   |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 21.2%                |       |
| 1,2,3,4,7,8-HxCDD   | 0.0408            | 0.1632 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0371            | 0.1484 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.039             | 0.156  |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.00653           | 0.0261 | 0.179   | --   | <5x*B           | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 1.1%                 | 7.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.014             | 0.056  |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0134            | 0.0536 | 0.81    | --   | <5x*B           | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 4.2%                 | 30.5% |
| OCDF                | 0.131             | 0.524  |         | J    |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 3.25              | 13     |         | E    |                 | 1.6                      |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-77              | 0.0839            | 0.3356 | 2.95    | --   | <5x*B           | 3                        | 3     | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 1.1%  |
| PCB-81              | 0.951             | 3.804  |         | E    |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 0.249             | 0.996  | 11.3    | J    | <5x*B           | 11.3                     | 5.7   | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 2.2%  |
| PCB-114             | 0.26              | 1.04   | 1.31    | J    | <5x*B           | 1.3                      | 0.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 1.3%  |
| PCB-118             | 0.305             | 1.22   | 27.3    | J    | <5x*B           | 27.3                     | 13.7  | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 5.2%  |
| PCB-123             | 1.47              | 5.88   |         | EJ   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.111             | 0.444  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 5.3%                 |       |
| PCB-156             | 0.0898            | 0.3592 | 3.47    | --   | <5x*B           | 3.5                      | 3.5   | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 6.7%  |
| PCB-157             | 0.0928            | 0.3712 | 1.51    | --   | <5x*B           | 1.5                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 2.9%  |
| PCB-167             | 0.0913            | 0.3652 | 1.94    | --   | <5x*B           | 1.9                      | 1.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-169             | 0.0307            | 0.1228 | 0.131   | --   | <5x*B           | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 3.8%  |
| PCB-189             | 0.0197            | 0.0788 | 1.3     | --   | <5x*B           | 1.3                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.5%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.1               | 0.0   | 0.0       | 0.0   | 0.1          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAGMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0103            | 0.0412 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.02              | 0.08   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.134             | 0.536  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0135            | 0.054  |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0224            | 0.0896 | 0.347   | --   | <5x*B           | 0.3                      | 0.3   | 1              | 0.3                   | 0.3   | 77.0%                | 88.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0522            | 0.2088 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.015             | 0.06   | 0.124   | --   | <5x*B           | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.6%                 | 2.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.156             | 0.624  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.428             | 1.712  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 5.1%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0147            | 0.0588 | 0.211   | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.1%                 | 5.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0666            | 0.2664 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0621            | 0.2484 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.246             | 0.984  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0112            | 0.0448 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.00954           | 0.0382 | 0.654   | --   | <5x*B           | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 1.8%                 | 2.1%  |
| OCDF                | 0.219             | 0.876  |         | E    |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.0284            | 0.1136 | 2.99    | --   | <5x*B           | 3                        | 3     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0429            | 0.1716 | 2.18    | --   | <5x*B           | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0464            | 0.1856 | 0.589   | --   | <5x*B           | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.172             | 0.688  | 10.8    | --   | <5x*B           | 10.8                     | 10.8  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.18              | 0.72   | 0.962   | --   | <5x*B           | 1                        | 1     | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.178             | 0.712  | 26      | J    | <5x*B           | 26                       | 13    | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-123             | 0.721             | 2.884  |         | E    |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.271             | 1.084  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.6%                 |       |
| PCB-156             | 2.54              | 10.16  |         | E    |                 | 1.3                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-157             | 0.857             | 3.428  |         | E    |                 | 0.4                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 0.116             | 0.464  | 1.12    | --   | <5x*B           | 1.1                      | 1.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.233             | 0.932  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.403             | 1.612  |         | E    |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.3   | 0.0       | 0.0   | 0.3          | 0.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAHMB | Lab Blank |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.2               | 0.8    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.0449            | 0.1796 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0545            | 0.218  | 0.371   | --   | <5x*B           | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 1.7%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.257             | 1.028  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0537            | 0.2148 | 0.851   | --   | <5x*B           | 0.9                      | 0.9   | 1              | 0.9                   | 0.9   | 76.5%                | 93.5% |
| 1,2,3,4,7,8-HxCDF   | 0.0438            | 0.1752 | 0.236   | --   | <5x*B           | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.7%                 | 2.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.417             | 1.668  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.39              | 1.56   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.815             | 3.26   |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.4%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.587             | 2.348  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.46              | 1.84   |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.299             | 1.196  |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0406            | 0.1624 | 0.397   | --   | <5x*B           | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.198             | 0.792  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0284            | 0.1136 | 0.905   | --   | <5x*B           | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| OCDF                | 0.036             | 0.144  | 0.47    | --   | <5x*B           | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0579            | 0.2316 | 4.42    | --   | <5x*B           | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0422            | 0.1688 | 5.49    | --   | <5x*B           | 5.5                      | 5.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.0532            | 0.2128 | 0.822   | --   | <5x*B           | 0.8                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.262             | 1.048  | 19.5    | --   | <5x*B           | 19.5                     | 19.5  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 0.276             | 1.104  | 1.65    | --   | <5x*B           | 1.7                      | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.308             | 1.232  | 43.9    | J    | <5x*B           | 43.9                     | 22    | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-123             | 0.339             | 1.356  |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.269             | 1.076  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| PCB-156             | 0.13              | 0.52   | 6       | --   | <5x*B           | 6                        | 6     | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-157             | 1.48              | 5.92   |         | E    |                 | 0.7                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-167             | 0.13              | 0.52   | 2.04    | --   | <5x*B           | 2                        | 2     | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.111             | 0.444  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 1.09              | 4.36   |         | E    |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.9   | 0.0       | 0.0   | 1.0          | 0.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | MB1               | <i>Lab Blank</i> |         |      |                 |                          |         |                |                       |       |                      |       |
|---------------------|-------------------|------------------|---------|------|-----------------|--------------------------|---------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |                  | Results |      | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL               | Conc    | Flag |                 | Full                     | Quant   |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.621             | 2.484            |         | U    | 0.3             |                          | 0.1     | 0.0            |                       |       | 3.8%                 |       |
| 2,3,7,8-TCDD        | 0.511             | 2.044            |         | --   | 0.3             |                          | 1       | 0.3            |                       |       | 37.9%                |       |
| 1,2,3,7,8-PeCDF     | 0.221             | 0.884            |         | E    | 0.1             |                          | 0.05    | 0.0            |                       |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.146             | 0.584            |         | --   | 0.1             |                          | 0.5     | 0.1            |                       |       | 6.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.303             | 1.212            |         | E    | 0.2             |                          | 1       | 0.2            |                       |       | 25.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.139             | 0.556            |         | J    | 0.1             |                          | 0.1     | 0.0            |                       |       | 1.3%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.31              | 1.24             |         | EJ   | 0.2             |                          | 0.1     | 0.0            |                       |       | 2.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.147             | 0.588            | 0.209   | J    | 0.2             | 0.1                      | 0.1     | 0.0            | 0.0                   |       | 2.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.238             | 0.952            | 0.347   | J    | 0.3             | 0.1                      | 0.1     | 0.0            | 0.0                   |       | 3.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.21              | 0.84             | 0.313   | J    | 0.3             | 0.1                      | 0.1     | 0.0            | 0.0                   |       | 3.8%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.197             | 0.788            |         | J    | 0.1             |                          | 0.1     | 0.0            |                       |       | 1.3%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.189             | 0.756            |         | J    | 0.1             |                          | 0.1     | 0.0            |                       |       | 1.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 1.12              | 4.48             |         | DJ   | 0.3             |                          | 0.01    | 0.0            |                       |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.182             | 0.728            |         | J    | 0.1             |                          | 0.01    | 0.0            |                       |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.316             | 1.264            | 2.21    | J    | 2.2             | 1.1                      | 0.01    | 0.0            | 0.0                   |       | 2.8%                 |       |
| OCDF                | 0.559             | 2.236            | 1.74    | --   | 1.7             | 0.9                      | 0.0001  | 0.0            | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.516             | 2.064            | 31      | --   | 31              | 31                       | 0.0001  | 0.0            | 0.0                   |       | 0.4%                 |       |
| PCB-77              | 2.02              | 8.08             | 2.46    | --   | 2.5             | 1.2                      | 0.0001  | 0.0            | 0.0                   |       | 0.0%                 |       |
| PCB-81              | 1.74              | 6.96             |         | --   | 0.9             |                          | 0.0001  | 0.0            |                       |       | 0.0%                 |       |
| PCB-105             | 0.892             | 3.568            | 11.2    | --   | 11.2            | 11.2                     | 0.0001  | 0.0            | 0.0                   |       | 0.1%                 |       |
| PCB-114             | 0.825             | 3.3              |         | --   | 0.4             |                          | 0.0005  | 0.0            |                       |       | 0.0%                 |       |
| PCB-118             | 0.737             | 2.948            | 23.4    | --   | 23.4            | 23.4                     | 0.0001  | 0.0            | 0.0                   |       | 0.3%                 |       |
| PCB-123             | 0.752             | 3.008            |         | --   | 0.4             |                          | 0.0001  | 0.0            |                       |       | 0.0%                 |       |
| PCB-126             | 0.713             | 2.852            |         | --   | 0.4             |                          | 0.1     | 0.0            |                       |       | 5.1%                 |       |
| PCB-156             | 2.21              | 8.84             |         | E    | 1.1             |                          | 0.0005  | 0.0            |                       |       | 0.1%                 |       |
| PCB-157             | 0.681             | 2.724            |         | --   | 0.3             |                          | 0.0005  | 0.0            |                       |       | 0.0%                 |       |
| PCB-167             | 0.515             | 2.06             | 0.795   | --   | 0.8             | 0.4                      | 0.00001 | 0.0            | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.595             | 2.38             |         | --   | 0.3             |                          | 0.01    | 0.0            |                       |       | 0.4%                 |       |
| PCB-189             | 0.46              | 1.84             |         | --   | 0.2             |                          | 0.0001  | 0.0            |                       |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.0   | 0.0       | 0.0   | 0.6          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | MB2 | Lab Blank |
|-----------|-----|-----------|
|           |     |           |

| Analyte             | Analytical Limits |       | Results |      | <5x in<br>MB found | Adjusted Concentrations* |       | WHO TEFs<br>Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|--------------------|--------------------------|-------|-------------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                    | Full                     | Quant |                   | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.297             | 1.188 |         | U    |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 2,3,7,8-TCDD        | 0.294             | 1.176 |         | --   |                    | 0.1                      |       | 1                 | 0.1                   |       | 16.0%                |       |
| 1,2,3,7,8-PeCDF     | 0.396             | 1.584 |         | --   |                    | 0.2                      |       | 0.05              | 0.0                   |       | 1.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.324             | 1.296 |         | --   |                    | 0.2                      |       | 0.5               | 0.1                   |       | 16.0%                |       |
| 1,2,3,7,8-PeCDD     | 0.442             | 1.768 |         | --   |                    | 0.2                      |       | 1                 | 0.2                   |       | 32.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.133             | 0.532 |         | --   |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.107             | 0.428 | 0.271   | --   |                    | 0.3                      | 0.1   | 0.1               | 0.0                   | 0.0   | 4.8%                 | 18.8% |
| 2,3,4,6,7,8-HxCDF   | 0.232             | 0.928 |         | E    |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.172             | 0.688 | 0.589   | --   |                    | 0.6                      | 0.3   | 0.1               | 0.1                   | 0.0   | 9.6%                 | 56.5% |
| 1,2,3,4,7,8-HxCDD   | 0.221             | 0.884 |         | --   |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.193             | 0.772 |         | --   |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.193             | 0.772 |         | --   |                    | 0.1                      |       | 0.1               | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.168             | 0.672 | 0.267   | --   |                    | 0.3                      | 0.1   | 0.01              | 0.0                   | 0.0   | 0.5%                 | 1.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.272             | 1.088 |         | --   |                    | 0.1                      |       | 0.01              | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.418             | 1.672 | 1.08    | --   |                    | 1.1                      | 0.5   | 0.01              | 0.0                   | 0.0   | 1.8%                 | 9.4%  |
| OCDF                | 1.05              | 4.2   |         | E    |                    | 0.5                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |
| OCDD                | 0.355             | 1.42  | 14      | --   |                    | 14                       | 14    | 0.0001            | 0.0                   | 0.0   | 0.2%                 | 2.6%  |
| PCB-77              | 2.31              | 9.24  | 1.81    | --   |                    | 1.2                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |
| PCB-81              | 2.54              | 10.16 |         | --   |                    | 1.3                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.1               | 4.4   | 11.3    | --   |                    | 11.3                     | 11.3  | 0.0001            | 0.0                   | 0.0   | 0.2%                 | 2.1%  |
| PCB-114             | 1.02              | 4.08  |         | --   |                    | 0.5                      |       | 0.0005            | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 1.17              | 4.68  | 27.3    | --   |                    | 27.3                     | 27.3  | 0.0001            | 0.0                   | 0.0   | 0.4%                 | 5.1%  |
| PCB-123             | 1.19              | 4.76  |         | --   |                    | 0.6                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.83              | 3.32  |         | --   |                    | 0.4                      |       | 0.1               | 0.0                   |       | 6.4%                 |       |
| PCB-156             | 0.39              | 1.56  | 3.18    | --   |                    | 3.2                      | 3.2   | 0.0005            | 0.0                   | 0.0   | 0.3%                 | 3.0%  |
| PCB-157             | 0.408             | 1.632 | 0.79    | --   |                    | 0.8                      | 0.4   | 0.0005            | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-167             | 0.279             | 1.116 | 0.682   | --   |                    | 0.7                      | 0.3   | 0.00001           | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.322             | 1.288 |         | --   |                    | 0.2                      |       | 0.01              | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.221             | 0.884 |         | --   |                    | 0.1                      |       | 0.0001            | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.0   | 0.0       | 0.0   | 0.5          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAMLC | Lab Spike |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.36              | 1.44  | 20.4    | U    |                 | 20.4                     | 10.2  | 0.1            | 2.0                   | 1.0   | 0.7%                 | 0.4%  |
| 2,3,7,8-TCDD        | 0.398             | 1.592 | 17      | --   |                 | 17                       | 17    | 1              | 17.0                  | 17.0  | 6.1%                 | 6.1%  |
| 1,2,3,7,8-PeCDF     | 0.194             | 0.776 | 119     | --   |                 | 119                      | 119   | 0.05           | 6.0                   | 6.0   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.179             | 0.716 | 103     | --   |                 | 103                      | 103   | 0.5            | 51.5                  | 51.5  | 18.5%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.231             | 0.924 | 110     | --   |                 | 110                      | 110   | 1              | 110.0                 | 110.0 | 39.6%                | 39.7% |
| 1,2,3,4,7,8-HxCDF   | 0.131             | 0.524 | 104     | --   |                 | 104                      | 104   | 0.1            | 10.4                  | 10.4  | 3.7%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.111             | 0.444 | 88.7    | --   |                 | 88.7                     | 88.7  | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.148             | 0.592 | 101     | --   |                 | 101                      | 101   | 0.1            | 10.1                  | 10.1  | 3.6%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.193             | 0.772 | 89.9    | --   |                 | 89.9                     | 89.9  | 0.1            | 9.0                   | 9.0   | 3.2%                 | 3.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.208             | 0.832 | 104     | --   |                 | 104                      | 104   | 0.1            | 10.4                  | 10.4  | 3.7%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.176             | 0.704 | 92.5    | --   |                 | 92.5                     | 92.5  | 0.1            | 9.3                   | 9.3   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.177             | 0.708 | 83.5    | --   |                 | 83.5                     | 83.5  | 0.1            | 8.4                   | 8.4   | 3.0%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.273             | 1.092 | 88.6    | --   |                 | 88.6                     | 88.6  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.483             | 1.932 | 94.8    | --   |                 | 94.8                     | 94.8  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.107             | 0.428 | 105     | --   |                 | 105                      | 105   | 0.01           | 1.1                   | 1.1   | 0.4%                 | 0.4%  |
| OCDF                | 0.278             | 1.112 | 199     | --   |                 | 199                      | 199   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.193             | 0.772 | 207     | --   |                 | 207                      | 207   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.82              | 3.28  | 199     | --   |                 | 199                      | 199   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.939             | 3.756 | 200     | --   |                 | 200                      | 200   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.69              | 10.76 | 235     | --   |                 | 235                      | 235   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 2.63              | 10.52 | 214     | --   |                 | 214                      | 214   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 2.13              | 8.52  | 271     | --   |                 | 271                      | 271   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 2.26              | 9.04  | 211     | --   |                 | 211                      | 211   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.538             | 2.152 | 199     | --   |                 | 199                      | 199   | 0.1            | 19.9                  | 19.9  | 7.2%                 | 7.2%  |
| PCB-156             | 0.933             | 3.732 | 201     | --   |                 | 201                      | 201   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.926             | 3.704 | 195     | --   |                 | 195                      | 195   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.771             | 3.084 | 184     | --   |                 | 184                      | 184   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.512             | 2.048 | 201     | --   |                 | 201                      | 201   | 0.01           | 2.0                   | 2.0   | 0.7%                 | 0.7%  |
| PCB-189             | 0.351             | 1.404 | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 255.9             | 254.9 | 22.2      | 22.2  | 278.1        | 277.1 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAANLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.398             | 1.592 | 19      | --   |                 | 19                       | 19    | 0.1            | 1.9                   | 1.9   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.316             | 1.264 | 18.2    | --   |                 | 18.2                     | 18.2  | 1              | 18.2                  | 18.2  | 6.6%                 | 6.7%  |
| 1,2,3,7,8-PeCDF     | 0.382             | 1.528 | 111     | --   |                 | 111                      | 111   | 0.05           | 5.6                   | 5.6   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.322             | 1.288 | 93.4    | --   |                 | 93.4                     | 93.4  | 0.5            | 46.7                  | 46.7  | 16.9%                | 17.1% |
| 1,2,3,7,8-PeCDD     | 0.252             | 1.008 | 114     | --   |                 | 114                      | 114   | 1              | 114.0                 | 114.0 | 41.2%                | 41.8% |
| 1,2,3,4,7,8-HxCDF   | 0.166             | 0.664 | 95      | --   |                 | 95                       | 95    | 0.1            | 9.5                   | 9.5   | 3.4%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.146             | 0.584 | 89      | --   |                 | 89                       | 89    | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.206             | 0.824 | 101     | --   |                 | 101                      | 101   | 0.1            | 10.1                  | 10.1  | 3.7%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.322             | 1.288 | 83.2    | --   |                 | 83.2                     | 83.2  | 0.1            | 8.3                   | 8.3   | 3.0%                 | 3.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.131             | 0.524 | 101     | --   |                 | 101                      | 101   | 0.1            | 10.1                  | 10.1  | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.109             | 0.436 | 87.2    | --   |                 | 87.2                     | 87.2  | 0.1            | 8.7                   | 8.7   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.111             | 0.444 | 70.4    | J    |                 | 70.4                     | 35.2  | 0.1            | 7.0                   | 3.5   | 2.5%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.134             | 0.536 | 81.8    | --   |                 | 81.8                     | 81.8  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.332             | 1.328 | 95.6    | --   |                 | 95.6                     | 95.6  | 0.01           | 1.0                   | 1.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.084             | 0.336 | 106     | --   |                 | 106                      | 106   | 0.01           | 1.1                   | 1.1   | 0.4%                 | 0.4%  |
| OCDF                | 0.296             | 1.184 | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.158             | 0.632 | 192     | --   |                 | 192                      | 192   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 2.32              | 9.28  | 256     | J    |                 | 256                      | 128   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 2.62              | 10.48 | 252     | J    |                 | 252                      | 126   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.33              | 13.32 | 239     | --   |                 | 239                      | 239   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 3.25              | 13    | 196     | --   |                 | 196                      | 196   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 2.96              | 11.84 | 304     | BJ   | <5x*B           | 304                      | 152   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 3.13              | 12.52 | 220     | --   |                 | 220                      | 220   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.68              | 6.72  | 220     | --   |                 | 220                      | 220   | 0.1            | 22.0                  | 22.0  | 8.0%                 | 8.1%  |
| PCB-156             | 1.07              | 4.28  | 210     | --   |                 | 210                      | 210   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 1.14              | 4.56  | 205     | --   |                 | 205                      | 205   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 1.07              | 4.28  | 220     | --   |                 | 220                      | 220   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.14              | 4.56  | 224     | --   |                 | 224                      | 224   | 0.01           | 2.2                   | 2.2   | 0.8%                 | 0.8%  |
| PCB-189             | 0.688             | 2.752 | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 251.9             | 248.4 | 24.5      | 24.5  | 276.4        | 272.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAOLC | <i>Lab Spike</i> |
|-----------|--------|------------------|
|           |        |                  |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.465             | 1.86   | 19      | NJ   |                 | 9.5                      |       | 0.1            | 1.0                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.346             | 1.384  | 17.1    | --   |                 | 17.1                     | 17.1  | 1              | 17.1                  | 17.1  | 6.3%                 | 6.3%  |
| 1,2,3,7,8-PeCDF     | 0.219             | 0.876  | 106     | --   |                 | 106                      | 106   | 0.05           | 5.3                   | 5.3   | 1.9%                 | 1.9%  |
| 2,3,4,7,8-PeCDF     | 0.192             | 0.768  | 93.2    | --   |                 | 93.2                     | 93.2  | 0.5            | 46.6                  | 46.6  | 17.1%                | 17.1% |
| 1,2,3,7,8-PeCDD     | 0.256             | 1.024  | 112     | --   |                 | 112                      | 112   | 1              | 112.0                 | 112.0 | 41.0%                | 41.1% |
| 1,2,3,4,7,8-HxCDF   | 0.298             | 1.192  | 96.8    | --   |                 | 96.8                     | 96.8  | 0.1            | 9.7                   | 9.7   | 3.5%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.256             | 1.024  | 89.7    | --   |                 | 89.7                     | 89.7  | 0.1            | 9.0                   | 9.0   | 3.3%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.335             | 1.34   | 97.6    | --   |                 | 97.6                     | 97.6  | 0.1            | 9.8                   | 9.8   | 3.6%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.495             | 1.98   | 85.5    | --   |                 | 85.5                     | 85.5  | 0.1            | 8.6                   | 8.6   | 3.1%                 | 3.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0924            | 0.3696 | 99.8    | --   |                 | 99.8                     | 99.8  | 0.1            | 10.0                  | 10.0  | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0838            | 0.3352 | 85.7    | --   |                 | 85.7                     | 85.7  | 0.1            | 8.6                   | 8.6   | 3.1%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.0817            | 0.3268 | 82.2    | --   |                 | 82.2                     | 82.2  | 0.1            | 8.2                   | 8.2   | 3.0%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.163             | 0.652  | 82.2    | --   |                 | 82.2                     | 82.2  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.352             | 1.408  | 93.5    | --   |                 | 93.5                     | 93.5  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.102             | 0.408  | 107     | --   |                 | 107                      | 107   | 0.01           | 1.1                   | 1.1   | 0.4%                 | 0.4%  |
| OCDF                | 0.175             | 0.7    | 197     | --   |                 | 197                      | 197   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0805            | 0.322  | 198     | --   |                 | 198                      | 198   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.293             | 1.172  | 249     | --   |                 | 249                      | 249   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.351             | 1.404  | 251     | J    |                 | 251                      | 125.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.696             | 2.784  | 265     | J    |                 | 265                      | 132.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.682             | 2.728  | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.589             | 2.356  | 325     | J    |                 | 325                      | 162.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.645             | 2.58   | 222     | --   |                 | 222                      | 222   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.253             | 1.012  | 220     | --   |                 | 220                      | 220   | 0.1            | 22.0                  | 22.0  | 8.0%                 | 8.1%  |
| PCB-156             | 0.184             | 0.736  | 232     | --   |                 | 232                      | 232   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.192             | 0.768  | 216     | --   |                 | 216                      | 216   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.17              | 0.68   | 211     | --   |                 | 211                      | 211   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.235             | 0.94   | 226     | --   |                 | 226                      | 226   | 0.01           | 2.3                   | 2.3   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0359            | 0.1436 | 219     | --   |                 | 219                      | 219   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 248.7             | 247.7 | 24.6      | 24.6  | 273.3        | 272.3 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAQLC | <i>Lab Spike</i> |
|-----------|--------|------------------|
|           |        |                  |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.129             | 0.516  | 19.1    | --   |                 | 19.1                     | 19.1  | 0.1            | 1.9                   | 1.9   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.176             | 0.704  | 16      | --   |                 | 16                       | 16    | 1              | 16.0                  | 16.0  | 5.8%                 | 5.9%  |
| 1,2,3,7,8-PeCDF     | 0.133             | 0.532  | 115     | --   |                 | 115                      | 115   | 0.05           | 5.8                   | 5.8   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.119             | 0.476  | 97      | --   |                 | 97                       | 97    | 0.5            | 48.5                  | 48.5  | 17.6%                | 17.8% |
| 1,2,3,7,8-PeCDD     | 0.158             | 0.632  | 114     | --   |                 | 114                      | 114   | 1              | 114.0                 | 114.0 | 41.3%                | 41.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0961            | 0.3844 | 98      | --   |                 | 98                       | 98    | 0.1            | 9.8                   | 9.8   | 3.6%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0887            | 0.3548 | 89.4    | --   |                 | 89.4                     | 89.4  | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.123             | 0.492  | 97.2    | --   |                 | 97.2                     | 97.2  | 0.1            | 9.7                   | 9.7   | 3.5%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.216             | 0.864  | 85.9    | --   |                 | 85.9                     | 85.9  | 0.1            | 8.6                   | 8.6   | 3.1%                 | 3.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.122             | 0.488  | 103     | --   |                 | 103                      | 103   | 0.1            | 10.3                  | 10.3  | 3.7%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.105             | 0.42   | 89.8    | --   |                 | 89.8                     | 89.8  | 0.1            | 9.0                   | 9.0   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.106             | 0.424  | 65.5    | J    |                 | 65.5                     | 32.8  | 0.1            | 6.6                   | 3.3   | 2.4%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0957            | 0.3828 | 88.4    | --   |                 | 88.4                     | 88.4  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.231             | 0.924  | 101     | --   |                 | 101                      | 101   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0842            | 0.3368 | 101     | --   |                 | 101                      | 101   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.159             | 0.636  | 195     | --   |                 | 195                      | 195   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0751            | 0.3004 | 201     | --   |                 | 201                      | 201   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.433             | 1.732  | 220     | --   |                 | 220                      | 220   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.419             | 1.676  | 189     | --   |                 | 189                      | 189   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.469             | 1.876  | 225     | --   |                 | 225                      | 225   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.46              | 1.84   | 210     | --   |                 | 210                      | 210   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.39              | 1.56   | 251     | J    |                 | 251                      | 125.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.426             | 1.704  | 220     | --   |                 | 220                      | 220   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.419             | 1.676  | 213     | --   |                 | 213                      | 213   | 0.1            | 21.3                  | 21.3  | 7.7%                 | 7.8%  |
| PCB-156             | 0.209             | 0.836  | 204     | --   |                 | 204                      | 204   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.218             | 0.872  | 200     | --   |                 | 200                      | 200   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.192             | 0.768  | 200     | --   |                 | 200                      | 200   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.191             | 0.764  | 220     | --   |                 | 220                      | 220   | 0.01           | 2.2                   | 2.2   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0695            | 0.278  | 206     | --   |                 | 206                      | 206   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 252.0             | 248.7 | 23.8      | 23.8  | 275.8        | 272.5 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAARLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0532            | 0.2128 | 17.3    | --   |                 | 17.3                     | 17.3  | 0.1            | 1.7                   | 1.7   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0693            | 0.2772 | 16.6    | --   |                 | 16.6                     | 16.6  | 1              | 16.6                  | 16.6  | 6.3%                 | 6.4%  |
| 1,2,3,7,8-PeCDF     | 0.0714            | 0.2856 | 111     | --   |                 | 111                      | 111   | 0.05           | 5.6                   | 5.6   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.0592            | 0.2368 | 97.1    | --   |                 | 97.1                     | 97.1  | 0.5            | 48.6                  | 48.6  | 18.4%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.0623            | 0.2492 | 105     | --   |                 | 105                      | 105   | 1              | 105.0                 | 105.0 | 39.7%                | 40.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0511            | 0.2044 | 92.7    | --   |                 | 92.7                     | 92.7  | 0.1            | 9.3                   | 9.3   | 3.5%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0462            | 0.1848 | 88      | --   |                 | 88                       | 88    | 0.1            | 8.8                   | 8.8   | 3.3%                 | 3.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0605            | 0.242  | 94.3    | --   |                 | 94.3                     | 94.3  | 0.1            | 9.4                   | 9.4   | 3.6%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0969            | 0.3876 | 81.4    | --   |                 | 81.4                     | 81.4  | 0.1            | 8.1                   | 8.1   | 3.1%                 | 3.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0271            | 0.1084 | 95.5    | --   |                 | 95.5                     | 95.5  | 0.1            | 9.6                   | 9.6   | 3.6%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0274            | 0.1096 | 86      | --   |                 | 86                       | 86    | 0.1            | 8.6                   | 8.6   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0297            | 0.1188 | 61.8    | J    |                 | 61.8                     | 30.9  | 0.1            | 6.2                   | 3.1   | 2.3%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0498            | 0.1992 | 77.5    | --   |                 | 77.5                     | 77.5  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0911            | 0.3644 | 85.1    | --   |                 | 85.1                     | 85.1  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0703            | 0.2812 | 101     | --   |                 | 101                      | 101   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.117             | 0.468  | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.129             | 0.516  | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.168             | 0.672  | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.168             | 0.672  | 186     | --   |                 | 186                      | 186   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.166             | 0.664  | 203     | --   |                 | 203                      | 203   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.164             | 0.656  | 185     | --   |                 | 185                      | 185   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.143             | 0.572  | 219     | --   | <5x*B           | 219                      | 219   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.162             | 0.648  | 195     | --   |                 | 195                      | 195   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.194             | 0.776  | 218     | --   |                 | 218                      | 218   | 0.1            | 21.8                  | 21.8  | 8.2%                 | 8.3%  |
| PCB-156             | 0.0635            | 0.254  | 200     | --   |                 | 200                      | 200   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.064             | 0.256  | 188     | --   |                 | 188                      | 188   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.0607            | 0.2428 | 205     | --   |                 | 205                      | 205   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0776            | 0.3104 | 204     | --   |                 | 204                      | 204   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0246            | 0.0984 | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 240.2             | 237.1 | 24.1      | 24.1  | 264.3        | 261.2 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAASLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0569            | 0.2276 | 17.8    | --   |                 | 17.8                     | 17.8  | 0.1            | 1.8                   | 1.8   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.032             | 0.128  | 16.9    | --   |                 | 16.9                     | 16.9  | 1              | 16.9                  | 16.9  | 6.3%                 | 6.3%  |
| 1,2,3,7,8-PeCDF     | 0.113             | 0.452  | 118     | --   |                 | 118                      | 118   | 0.05           | 5.9                   | 5.9   | 2.2%                 | 2.2%  |
| 2,3,4,7,8-PeCDF     | 0.114             | 0.456  | 102     | --   |                 | 102                      | 102   | 0.5            | 51.0                  | 51.0  | 19.1%                | 19.1% |
| 1,2,3,7,8-PeCDD     | 0.129             | 0.516  | 103     | --   |                 | 103                      | 103   | 1              | 103.0                 | 103.0 | 38.6%                | 38.6% |
| 1,2,3,4,7,8-HxCDF   | 0.057             | 0.228  | 95      | --   |                 | 95                       | 95    | 0.1            | 9.5                   | 9.5   | 3.6%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0521            | 0.2084 | 90      | --   |                 | 90                       | 90    | 0.1            | 9.0                   | 9.0   | 3.4%                 | 3.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.064             | 0.256  | 87.4    | --   |                 | 87.4                     | 87.4  | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0891            | 0.3564 | 82.9    | --   |                 | 82.9                     | 82.9  | 0.1            | 8.3                   | 8.3   | 3.1%                 | 3.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0873            | 0.3492 | 99.2    | --   |                 | 99.2                     | 99.2  | 0.1            | 9.9                   | 9.9   | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0839            | 0.3356 | 86.4    | --   |                 | 86.4                     | 86.4  | 0.1            | 8.6                   | 8.6   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.094             | 0.376  | 82      | --   |                 | 82                       | 82    | 0.1            | 8.2                   | 8.2   | 3.1%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0614            | 0.2456 | 83.3    | --   |                 | 83.3                     | 83.3  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.114             | 0.456  | 93      | --   |                 | 93                       | 93    | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0775            | 0.31   | 99      | --   |                 | 99                       | 99    | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.24              | 0.96   | 169     | --   |                 | 169                      | 169   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.222             | 0.888  | 203     | --   |                 | 203                      | 203   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.245             | 0.98   | 193     | --   |                 | 193                      | 193   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.222             | 0.888  | 190     | --   |                 | 190                      | 190   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.764             | 3.056  | 209     | --   |                 | 209                      | 209   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.776             | 3.104  | 199     | --   |                 | 199                      | 199   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.644             | 2.576  | 221     | --   |                 | 221                      | 221   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.751             | 3.004  | 210     | --   |                 | 210                      | 210   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.244             | 0.976  | 204     | --   |                 | 204                      | 204   | 0.1            | 20.4                  | 20.4  | 7.7%                 | 7.7%  |
| PCB-156             | 0.242             | 0.968  | 214     | --   |                 | 214                      | 214   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.252             | 1.008  | 222     | --   |                 | 222                      | 222   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.231             | 0.924  | 211     | --   |                 | 211                      | 211   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.201             | 0.804  | 202     | --   |                 | 202                      | 202   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0471            | 0.1884 | 213     | --   |                 | 213                      | 213   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 243.5             | 243.5 | 22.7      | 22.7  | 266.2        | 266.2 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAATLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0383            | 0.1532 | 16      | --   |                 | 16                       | 16    | 0.1            | 1.6                   | 1.6   | 0.6%                 | 0.6%  |
| 2,3,7,8-TCDD        | 0.0458            | 0.1832 | 17.7    | --   |                 | 17.7                     | 17.7  | 1              | 17.7                  | 17.7  | 7.1%                 | 7.1%  |
| 1,2,3,7,8-PeCDF     | 0.0774            | 0.3096 | 93.2    | --   |                 | 93.2                     | 93.2  | 0.05           | 4.7                   | 4.7   | 1.9%                 | 1.9%  |
| 2,3,4,7,8-PeCDF     | 0.0747            | 0.2988 | 88.4    | --   |                 | 88.4                     | 88.4  | 0.5            | 44.2                  | 44.2  | 17.6%                | 17.6% |
| 1,2,3,7,8-PeCDD     | 0.0902            | 0.3608 | 97.6    | --   |                 | 97.6                     | 97.6  | 1              | 97.6                  | 97.6  | 38.9%                | 38.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0271            | 0.1084 | 83.3    | --   |                 | 83.3                     | 83.3  | 0.1            | 8.3                   | 8.3   | 3.3%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.024             | 0.096  | 76.8    | --   |                 | 76.8                     | 76.8  | 0.1            | 7.7                   | 7.7   | 3.1%                 | 3.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0566            | 0.2264 | 93.1    | --   |                 | 93.1                     | 93.1  | 0.1            | 9.3                   | 9.3   | 3.7%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.03              | 0.12   | 78.8    | --   |                 | 78.8                     | 78.8  | 0.1            | 7.9                   | 7.9   | 3.1%                 | 3.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0435            | 0.174  | 92.4    | --   |                 | 92.4                     | 92.4  | 0.1            | 9.2                   | 9.2   | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0359            | 0.1436 | 83      | --   |                 | 83                       | 83    | 0.1            | 8.3                   | 8.3   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.043             | 0.172  | 102     | --   |                 | 102                      | 102   | 0.1            | 10.2                  | 10.2  | 4.1%                 | 4.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.038             | 0.152  | 65.6    | J    |                 | 65.6                     | 32.8  | 0.01           | 0.7                   | 0.3   | 0.3%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0669            | 0.2676 | 84.2    | --   |                 | 84.2                     | 84.2  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0438            | 0.1752 | 92.8    | --   |                 | 92.8                     | 92.8  | 0.01           | 0.9                   | 0.9   | 0.4%                 | 0.4%  |
| OCDF                | 0.086             | 0.344  | 157     | --   |                 | 157                      | 157   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0953            | 0.3812 | 177     | --   |                 | 177                      | 177   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.328             | 1.312  | 200     | --   |                 | 200                      | 200   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.37              | 1.48   | 200     | --   |                 | 200                      | 200   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.472             | 1.888  | 210     | --   |                 | 210                      | 210   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.469             | 1.876  | 200     | --   |                 | 200                      | 200   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.39              | 1.56   | 219     | --   | <5x*B           | 219                      | 219   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.438             | 1.752  | 207     | --   |                 | 207                      | 207   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.167             | 0.668  | 195     | --   |                 | 195                      | 195   | 0.1            | 19.5                  | 19.5  | 7.8%                 | 7.8%  |
| PCB-156             | 0.218             | 0.872  | 212     | --   |                 | 212                      | 212   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.23              | 0.92   | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.212             | 0.848  | 218     | --   |                 | 218                      | 218   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0903            | 0.3612 | 191     | --   |                 | 191                      | 191   | 0.01           | 1.9                   | 1.9   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0825            | 0.33   | 205     | --   |                 | 205                      | 205   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 229.1             | 228.7 | 21.7      | 21.7  | 250.8        | 250.4 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAULCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0484            | 0.1936 | 17.6    | --   |                 | 17.6                     | 17.6  | 0.1            | 1.8                   | 1.8   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0573            | 0.2292 | 18.3    | --   |                 | 18.3                     | 18.3  | 1              | 18.3                  | 18.3  | 6.9%                 | 6.9%  |
| 1,2,3,7,8-PeCDF     | 0.191             | 0.764  | 102     | --   |                 | 102                      | 102   | 0.05           | 5.1                   | 5.1   | 1.9%                 | 1.9%  |
| 2,3,4,7,8-PeCDF     | 0.153             | 0.612  | 91.4    | --   |                 | 91.4                     | 91.4  | 0.5            | 45.7                  | 45.7  | 17.2%                | 17.2% |
| 1,2,3,7,8-PeCDD     | 0.117             | 0.468  | 107     | --   |                 | 107                      | 107   | 1              | 107.0                 | 107.0 | 40.4%                | 40.4% |
| 1,2,3,4,7,8-HxCDF   | 0.2               | 0.8    | 91.5    | --   |                 | 91.5                     | 91.5  | 0.1            | 9.2                   | 9.2   | 3.5%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.173             | 0.692  | 81.3    | --   |                 | 81.3                     | 81.3  | 0.1            | 8.1                   | 8.1   | 3.1%                 | 3.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.219             | 0.876  | 91.1    | --   |                 | 91.1                     | 91.1  | 0.1            | 9.1                   | 9.1   | 3.4%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.256             | 1.024  | 87.8    | --   |                 | 87.8                     | 87.8  | 0.1            | 8.8                   | 8.8   | 3.3%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0916            | 0.3664 | 107     | --   |                 | 107                      | 107   | 0.1            | 10.7                  | 10.7  | 4.0%                 | 4.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.079             | 0.316  | 79      | --   |                 | 79                       | 79    | 0.1            | 7.9                   | 7.9   | 3.0%                 | 3.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0748            | 0.2992 | 78      | --   |                 | 78                       | 78    | 0.1            | 7.8                   | 7.8   | 2.9%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.126             | 0.504  | 82.2    | --   |                 | 82.2                     | 82.2  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.2               | 0.8    | 97.2    | --   |                 | 97.2                     | 97.2  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0553            | 0.2212 | 98.9    | --   |                 | 98.9                     | 98.9  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0555            | 0.222  | 171     | --   |                 | 171                      | 171   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0747            | 0.2988 | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.109             | 0.436  | 198     | --   |                 | 198                      | 198   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.13              | 0.52   | 198     | --   |                 | 198                      | 198   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.579             | 2.316  | 230     | --   |                 | 230                      | 230   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.575             | 2.3    | 214     | --   |                 | 214                      | 214   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.498             | 1.992  | 249     | --   |                 | 249                      | 249   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.559             | 2.236  | 224     | --   |                 | 224                      | 224   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.174             | 0.696  | 203     | --   |                 | 203                      | 203   | 0.1            | 20.3                  | 20.3  | 7.7%                 | 7.7%  |
| PCB-156             | 0.232             | 0.928  | 212     | --   |                 | 212                      | 212   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.245             | 0.98   | 214     | --   |                 | 214                      | 214   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.226             | 0.904  | 202     | --   |                 | 202                      | 202   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0974            | 0.3896 | 201     | --   |                 | 201                      | 201   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.125             | 0.5    | 193     | --   |                 | 193                      | 193   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 242.3             | 242.3 | 22.6      | 22.6  | 264.9        | 264.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAWLC | Lab Spike |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00153           | 0.0061 | 18.6    | --   |                 | 18.6                     | 18.6  | 0.1            | 1.9                   | 1.9   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.00248           | 0.0099 | 18.9    | --   |                 | 18.9                     | 18.9  | 1              | 18.9                  | 18.9  | 6.9%                 | 6.9%  |
| 1,2,3,7,8-PeCDF     | 0.00191           | 0.0076 | 111     | --   |                 | 111                      | 111   | 0.05           | 5.6                   | 5.6   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.00146           | 0.0058 | 98.7    | --   |                 | 98.7                     | 98.7  | 0.5            | 49.4                  | 49.4  | 18.1%                | 18.1% |
| 1,2,3,7,8-PeCDD     | 0.00252           | 0.0101 | 107     | --   |                 | 107                      | 107   | 1              | 107.0                 | 107.0 | 39.2%                | 39.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0164            | 0.0656 | 90.6    | --   |                 | 90.6                     | 90.6  | 0.1            | 9.1                   | 9.1   | 3.3%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.013             | 0.052  | 82.1    | --   |                 | 82.1                     | 82.1  | 0.1            | 8.2                   | 8.2   | 3.0%                 | 3.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0168            | 0.0672 | 90.7    | --   |                 | 90.7                     | 90.7  | 0.1            | 9.1                   | 9.1   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0213            | 0.0852 | 86.2    | --   |                 | 86.2                     | 86.2  | 0.1            | 8.6                   | 8.6   | 3.2%                 | 3.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.00211           | 0.0084 | 106     | --   |                 | 106                      | 106   | 0.1            | 10.6                  | 10.6  | 3.9%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.00227           | 0.0091 | 87.2    | --   |                 | 87.2                     | 87.2  | 0.1            | 8.7                   | 8.7   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.00228           | 0.0091 | 87.9    | --   |                 | 87.9                     | 87.9  | 0.1            | 8.8                   | 8.8   | 3.2%                 | 3.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0201            | 0.0804 | 80      | --   |                 | 80                       | 80    | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0259            | 0.1036 | 99.9    | --   |                 | 99.9                     | 99.9  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00162           | 0.0065 | 98.9    | --   |                 | 98.9                     | 98.9  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.00149           | 0.006  | 203     | --   |                 | 203                      | 203   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.00296           | 0.0118 | 196     | --   |                 | 196                      | 196   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.102             | 0.408  | 219     | --   |                 | 219                      | 219   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.113             | 0.452  | 229     | --   |                 | 229                      | 229   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.379             | 1.516  | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.376             | 1.504  | 191     | --   |                 | 191                      | 191   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.304             | 1.216  | 234     | --   |                 | 234                      | 234   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.342             | 1.368  | 209     | --   |                 | 209                      | 209   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.157             | 0.628  | 219     | --   |                 | 219                      | 219   | 0.1            | 21.9                  | 21.9  | 8.0%                 | 8.0%  |
| PCB-156             | 0.237             | 0.948  | 212     | --   |                 | 212                      | 212   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.249             | 0.996  | 223     | --   |                 | 223                      | 223   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.23              | 0.92   | 220     | --   |                 | 220                      | 220   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.095             | 0.38   | 202     | --   |                 | 202                      | 202   | 0.01           | 2.0                   | 2.0   | 0.7%                 | 0.7%  |
| PCB-189             | 0.103             | 0.412  | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 248.7             | 248.7 | 24.2      | 24.2  | 272.9        | 272.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAXLC | Lab Spike |
|-----------|--------|-----------|
|           |        |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0518            | 0.2072 | 19.1    | --   |                 | 19.1                     | 19.1  | 0.1            | 1.9                   | 1.9   | 0.8%                 | 0.8%  |
| 2,3,7,8-TCDD        | 0.049             | 0.196  | 16.7    | --   |                 | 16.7                     | 16.7  | 1              | 16.7                  | 16.7  | 6.7%                 | 6.7%  |
| 1,2,3,7,8-PeCDF     | 0.0708            | 0.2832 | 106     | --   |                 | 106                      | 106   | 0.05           | 5.3                   | 5.3   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.0518            | 0.2072 | 94.3    | --   |                 | 94.3                     | 94.3  | 0.5            | 47.2                  | 47.2  | 18.8%                | 18.8% |
| 1,2,3,7,8-PeCDD     | 0.0658            | 0.2632 | 93.4    | --   |                 | 93.4                     | 93.4  | 1              | 93.4                  | 93.4  | 37.3%                | 37.3% |
| 1,2,3,4,7,8-HxCDF   | 0.0437            | 0.1748 | 91.5    | --   |                 | 91.5                     | 91.5  | 0.1            | 9.2                   | 9.2   | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.0381            | 0.1524 | 79.8    | --   |                 | 79.8                     | 79.8  | 0.1            | 8.0                   | 8.0   | 3.2%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0429            | 0.1716 | 88.1    | --   |                 | 88.1                     | 88.1  | 0.1            | 8.8                   | 8.8   | 3.5%                 | 3.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0494            | 0.1976 | 84.1    | --   |                 | 84.1                     | 84.1  | 0.1            | 8.4                   | 8.4   | 3.4%                 | 3.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0101            | 0.0404 | 92.2    | --   |                 | 92.2                     | 92.2  | 0.1            | 9.2                   | 9.2   | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.00864           | 0.0346 | 85      | --   |                 | 85                       | 85    | 0.1            | 8.5                   | 8.5   | 3.4%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.00963           | 0.0385 | 91.6    | --   |                 | 91.6                     | 91.6  | 0.1            | 9.2                   | 9.2   | 3.7%                 | 3.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0624            | 0.2496 | 76.3    | --   |                 | 76.3                     | 76.3  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0843            | 0.3372 | 97      | --   |                 | 97                       | 97    | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0101            | 0.0404 | 96      | --   |                 | 96                       | 96    | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0263            | 0.1052 | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.00166           | 0.0066 | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.123             | 0.492  | 195     | --   |                 | 195                      | 195   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.169             | 0.676  | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.866             | 3.464  | 246     | --   |                 | 246                      | 246   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.86              | 3.44   | 225     | --   |                 | 225                      | 225   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.752             | 3.008  | 288     | J    | <5x*B           | 288                      | 144   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.846             | 3.384  | 232     | --   |                 | 232                      | 232   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.183             | 0.732  | 194     | --   |                 | 194                      | 194   | 0.1            | 19.4                  | 19.4  | 7.8%                 | 7.8%  |
| PCB-156             | 0.271             | 1.084  | 209     | --   |                 | 209                      | 209   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.286             | 1.144  | 222     | --   |                 | 222                      | 222   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.264             | 1.056  | 252     | J    |                 | 252                      | 126   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0812            | 0.3248 | 198     | --   |                 | 198                      | 198   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.136             | 0.544  | 211     | --   |                 | 211                      | 211   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 228.6             | 228.6 | 21.7      | 21.7  | 250.3        | 250.3 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAYLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0384            | 0.1536 | 16.9    | --   |                 | 16.9                     | 16.9  | 0.1            | 1.7                   | 1.7   | 0.6%                 | 0.6%  |
| 2,3,7,8-TCDD        | 0.0401            | 0.1604 | 17.1    | --   |                 | 17.1                     | 17.1  | 1              | 17.1                  | 17.1  | 6.5%                 | 6.6%  |
| 1,2,3,7,8-PeCDF     | 0.0475            | 0.19   | 107     | --   |                 | 107                      | 107   | 0.05           | 5.4                   | 5.4   | 2.0%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.0319            | 0.1276 | 90.4    | --   |                 | 90.4                     | 90.4  | 0.5            | 45.2                  | 45.2  | 17.1%                | 17.3% |
| 1,2,3,7,8-PeCDD     | 0.0709            | 0.2836 | 108     | --   |                 | 108                      | 108   | 1              | 108.0                 | 108.0 | 41.0%                | 41.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0125            | 0.05   | 91.9    | --   |                 | 91.9                     | 91.9  | 0.1            | 9.2                   | 9.2   | 3.5%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0107            | 0.0428 | 80.8    | --   |                 | 80.8                     | 80.8  | 0.1            | 8.1                   | 8.1   | 3.1%                 | 3.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.014             | 0.056  | 88.4    | --   |                 | 88.4                     | 88.4  | 0.1            | 8.8                   | 8.8   | 3.4%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.0199            | 0.0796 | 86.3    | --   |                 | 86.3                     | 86.3  | 0.1            | 8.6                   | 8.6   | 3.3%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.00778           | 0.0311 | 111     | --   |                 | 111                      | 111   | 0.1            | 11.1                  | 11.1  | 4.2%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0056            | 0.0224 | 76.8    | --   |                 | 76.8                     | 76.8  | 0.1            | 7.7                   | 7.7   | 2.9%                 | 2.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.00667           | 0.0267 | 62      | J    |                 | 62                       | 31    | 0.1            | 6.2                   | 3.1   | 2.4%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0805            | 0.322  | 80.6    | --   |                 | 80.6                     | 80.6  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.163             | 0.652  | 99.2    | --   |                 | 99.2                     | 99.2  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00539           | 0.0216 | 94.5    | --   |                 | 94.5                     | 94.5  | 0.01           | 0.9                   | 0.9   | 0.4%                 | 0.4%  |
| OCDF                | 0.0185            | 0.074  | 232     | --   |                 | 232                      | 232   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.00701           | 0.0280 | 186     | --   |                 | 186                      | 186   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.064             | 0.256  | 213     | --   |                 | 213                      | 213   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0907            | 0.3628 | 218     | --   |                 | 218                      | 218   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.23              | 4.92   | 237     | --   |                 | 237                      | 237   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 1.28              | 5.12   | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 1.38              | 5.52   | 258     | J    |                 | 258                      | 129   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 1.57              | 6.28   | 233     | --   |                 | 233                      | 233   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.18              | 0.72   | 213     | --   |                 | 213                      | 213   | 0.1            | 21.3                  | 21.3  | 8.1%                 | 8.2%  |
| PCB-156             | 0.818             | 3.272  | 211     | --   |                 | 211                      | 211   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.846             | 3.384  | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.832             | 3.328  | 212     | --   |                 | 212                      | 212   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0912            | 0.3648 | 213     | --   |                 | 213                      | 213   | 0.01           | 2.1                   | 2.1   | 0.8%                 | 0.8%  |
| PCB-189             | 0.174             | 0.696  | 209     | --   |                 | 209                      | 209   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 239.8             | 236.7 | 23.7      | 23.7  | 263.5        | 260.4 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GAAZLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0349            | 0.1396 | 18.6    | --   |                 | 18.6                     | 18.6  | 0.1            | 1.9                   | 1.9   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0416            | 0.1664 | 19.7    | --   |                 | 19.7                     | 19.7  | 1              | 19.7                  | 19.7  | 7.0%                 | 7.0%  |
| 1,2,3,7,8-PeCDF     | 0.0559            | 0.2236 | 111     | --   |                 | 111                      | 111   | 0.05           | 5.6                   | 5.6   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.0433            | 0.1732 | 95.2    | --   |                 | 95.2                     | 95.2  | 0.5            | 47.6                  | 47.6  | 16.9%                | 16.9% |
| 1,2,3,7,8-PeCDD     | 0.048             | 0.192  | 113     | --   |                 | 113                      | 113   | 1              | 113.0                 | 113.0 | 40.1%                | 40.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0432            | 0.1728 | 90.8    | --   |                 | 90.8                     | 90.8  | 0.1            | 9.1                   | 9.1   | 3.2%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0365            | 0.146  | 83.1    | --   |                 | 83.1                     | 83.1  | 0.1            | 8.3                   | 8.3   | 2.9%                 | 2.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.0451            | 0.1804 | 89.9    | --   |                 | 89.9                     | 89.9  | 0.1            | 9.0                   | 9.0   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0488            | 0.1952 | 88.9    | --   |                 | 88.9                     | 88.9  | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0154            | 0.0616 | 118     | --   |                 | 118                      | 118   | 0.1            | 11.8                  | 11.8  | 4.2%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0119            | 0.0476 | 89.4    | --   |                 | 89.4                     | 89.4  | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0137            | 0.0548 | 105     | --   |                 | 105                      | 105   | 0.1            | 10.5                  | 10.5  | 3.7%                 | 3.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0687            | 0.2748 | 81      | --   |                 | 81                       | 81    | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.103             | 0.412  | 101     | --   |                 | 101                      | 101   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0618            | 0.2472 | 103     | --   |                 | 103                      | 103   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0294            | 0.1176 | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0361            | 0.1444 | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0869            | 0.3476 | 206     | --   |                 | 206                      | 206   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.106             | 0.424  | 205     | --   |                 | 205                      | 205   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.852             | 3.408  | 227     | --   | <5x*B           | 227                      | 227   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.847             | 3.388  | 221     | --   |                 | 221                      | 221   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.744             | 2.976  | 224     | --   | <5x*B           | 224                      | 224   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.837             | 3.348  | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.167             | 0.668  | 222     | --   |                 | 222                      | 222   | 0.1            | 22.2                  | 22.2  | 7.9%                 | 7.9%  |
| PCB-156             | 0.303             | 1.212  | 211     | --   |                 | 211                      | 211   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.319             | 1.276  | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.294             | 1.176  | 202     | --   |                 | 202                      | 202   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.107             | 0.428  | 224     | --   |                 | 224                      | 224   | 0.01           | 2.2                   | 2.2   | 0.8%                 | 0.8%  |
| PCB-189             | 0.11              | 0.44   | 206     | --   |                 | 206                      | 206   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 257.1             | 257.1 | 24.7      | 24.7  | 281.8        | 281.8 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAALCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.678             | 2.712 | 20.6    | --   |                 | 20.6                     | 20.6  | 0.1            | 2.1                   | 2.1   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 1.486             | 5.944 | 19.46   | --   |                 | 19.5                     | 19.5  | 1              | 19.5                  | 19.5  | 7.0%                 | 7.1%  |
| 1,2,3,7,8-PeCDF     | 0.522             | 2.088 | 110     | --   |                 | 110                      | 110   | 0.05           | 5.5                   | 5.5   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.484             | 1.936 | 97.8    | --   |                 | 97.8                     | 97.8  | 0.5            | 48.9                  | 48.9  | 17.7%                | 17.8% |
| 1,2,3,7,8-PeCDD     | 1.212             | 4.848 | 115     | --   |                 | 115                      | 115   | 1              | 115.0                 | 115.0 | 41.5%                | 41.8% |
| 1,2,3,4,7,8-HxCDF   | 0.318             | 1.272 | 84.4    | I    |                 | 84.4                     | 84.4  | 0.1            | 8.4                   | 8.4   | 3.0%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.318             | 1.272 | 84.6    | I    |                 | 84.6                     | 84.6  | 0.1            | 8.5                   | 8.5   | 3.1%                 | 3.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.722             | 2.888 | 94.6    | --   |                 | 94.6                     | 94.6  | 0.1            | 9.5                   | 9.5   | 3.4%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 1.634             | 6.536 | 92.8    | --   |                 | 92.8                     | 92.8  | 0.1            | 9.3                   | 9.3   | 3.4%                 | 3.4%  |
| 1,2,3,4,7,8-HxCDD   | 1.13              | 4.52  | 104     | I    |                 | 104                      | 104   | 0.1            | 10.4                  | 10.4  | 3.8%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.988             | 3.952 | 85.8    | I    |                 | 85.8                     | 85.8  | 0.1            | 8.6                   | 8.6   | 3.1%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.924             | 3.696 | 32.4    | IJ   |                 | 32.4                     | 16.2  | 0.1            | 3.2                   | 1.6   | 1.2%                 | 0.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.524             | 2.096 | 82.6    | I    |                 | 82.6                     | 82.6  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 2.02              | 8.08  | 103     | --   |                 | 103                      | 103   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 1.91              | 7.64  | 104     | --   |                 | 104                      | 104   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 5.18              | 20.72 | 314     | J    |                 | 314                      | 157   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 4.92              | 19.68 | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.444             | 1.776 | 228     | --   |                 | 228                      | 228   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.656             | 2.624 | 234     | --   |                 | 234                      | 234   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.353             | 1.412 | 251     | J    |                 | 251                      | 125.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.369             | 1.476 | 250     | --   |                 | 250                      | 250   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.397             | 1.588 | 288     | J    | <5x*B           | 288                      | 144   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.451             | 1.804 | 246     | --   |                 | 246                      | 246   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.028             | 4.112 | 226     | --   |                 | 226                      | 226   | 0.1            | 22.6                  | 22.6  | 8.2%                 | 8.2%  |
| PCB-156             | 0.327             | 1.308 | 222     | --   |                 | 222                      | 222   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.338             | 1.352 | 221     | --   |                 | 221                      | 221   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.332             | 1.328 | 218     | --   |                 | 218                      | 218   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.806             | 3.224 | 208     | --   |                 | 208                      | 208   | 0.01           | 2.1                   | 2.1   | 0.8%                 | 0.8%  |
| PCB-189             | 0.184             | 0.736 | 214     | --   |                 | 214                      | 214   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 251.7             | 250.1 | 25.0      | 25.0  | 276.7        | 275.1 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBABLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0632            | 0.2528 | 18.28   | --   |                 | 18.3                     | 18.3  | 0.1            | 1.8                   | 1.8   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.1016            | 0.4064 | 18.82   | --   |                 | 18.8                     | 18.8  | 1              | 18.8                  | 18.8  | 7.3%                 | 7.5%  |
| 1,2,3,7,8-PeCDF     | 0.1258            | 0.5032 | 101.4   | --   |                 | 101.4                    | 101.4 | 0.05           | 5.1                   | 5.1   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.1042            | 0.4168 | 91      | --   |                 | 91                       | 91    | 0.5            | 45.5                  | 45.5  | 17.6%                | 18.1% |
| 1,2,3,7,8-PeCDD     | 0.1318            | 0.5272 | 104.2   | --   |                 | 104.2                    | 104.2 | 1              | 104.2                 | 104.2 | 40.3%                | 41.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0412            | 0.1648 | 89.8    | --   |                 | 89.8                     | 89.8  | 0.1            | 9.0                   | 9.0   | 3.5%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0378            | 0.1512 | 80.6    | --   |                 | 80.6                     | 80.6  | 0.1            | 8.1                   | 8.1   | 3.1%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.046             | 0.184  | 89.8    | --   |                 | 89.8                     | 89.8  | 0.1            | 9.0                   | 9.0   | 3.5%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0486            | 0.1944 | 83.2    | --   |                 | 83.2                     | 83.2  | 0.1            | 8.3                   | 8.3   | 3.2%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0454            | 0.1816 | 68.2    | J    |                 | 68.2                     | 34.1  | 0.1            | 6.8                   | 3.4   | 2.6%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0518            | 0.2072 | 77.8    | --   |                 | 77.8                     | 77.8  | 0.1            | 7.8                   | 7.8   | 3.0%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.0434            | 0.1736 | 69.8    | J    |                 | 69.8                     | 34.9  | 0.1            | 7.0                   | 3.5   | 2.7%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.1662            | 0.6648 | 77      | --   |                 | 77                       | 77    | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.256             | 1.024  | 98.4    | --   |                 | 98.4                     | 98.4  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0516            | 0.2064 | 99.2    | --   |                 | 99.2                     | 99.2  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0874            | 0.3496 | 182.6   | --   |                 | 182.6                    | 182.6 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0976            | 0.3904 | 191.2   | --   |                 | 191.2                    | 191.2 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.132             | 0.528  | 208     | --   |                 | 208                      | 208   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.147             | 0.588  | 211     | --   |                 | 211                      | 211   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.261             | 1.044  | 224     | --   |                 | 224                      | 224   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.272             | 1.088  | 220     | --   |                 | 220                      | 220   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.306             | 1.224  | 232     | --   |                 | 232                      | 232   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.348             | 1.392  | 225     | --   |                 | 225                      | 225   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.251             | 1.004  | 221     | --   |                 | 221                      | 221   | 0.1            | 22.1                  | 22.1  | 8.5%                 | 8.8%  |
| PCB-156             | 0.224             | 0.896  | 217     | --   |                 | 217                      | 217   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.231             | 0.924  | 220     | --   |                 | 220                      | 220   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.228             | 0.912  | 223     | --   |                 | 223                      | 223   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.123             | 0.492  | 197     | --   |                 | 197                      | 197   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0873            | 0.3492 | 217     | --   |                 | 217                      | 217   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 234.2             | 227.3 | 24.4      | 24.4  | 258.6        | 251.7 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBACLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0408            | 0.1632 | 17.9    | --   |                 | 17.9                     | 17.9  | 0.1            | 1.8                   | 1.8   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0294            | 0.1176 | 17.6    | --   |                 | 17.6                     | 17.6  | 1              | 17.6                  | 17.6  | 6.6%                 | 6.6%  |
| 1,2,3,7,8-PeCDF     | 0.0326            | 0.1304 | 101     | --   |                 | 101                      | 101   | 0.05           | 5.1                   | 5.1   | 1.9%                 | 1.9%  |
| 2,3,4,7,8-PeCDF     | 0.0314            | 0.1256 | 99.7    | --   |                 | 99.7                     | 99.7  | 0.5            | 49.9                  | 49.9  | 18.8%                | 18.8% |
| 1,2,3,7,8-PeCDD     | 0.0399            | 0.1596 | 105     | --   |                 | 105                      | 105   | 1              | 105.0                 | 105.0 | 39.5%                | 39.5% |
| 1,2,3,4,7,8-HxCDF   | 0.0373            | 0.1492 | 82.5    | --   |                 | 82.5                     | 82.5  | 0.1            | 8.3                   | 8.3   | 3.1%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0319            | 0.1276 | 79.3    | --   |                 | 79.3                     | 79.3  | 0.1            | 7.9                   | 7.9   | 3.0%                 | 3.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0383            | 0.1532 | 83.6    | --   |                 | 83.6                     | 83.6  | 0.1            | 8.4                   | 8.4   | 3.1%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.0506            | 0.2024 | 80.7    | --   |                 | 80.7                     | 80.7  | 0.1            | 8.1                   | 8.1   | 3.0%                 | 3.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0355            | 0.142  | 89.7    | --   |                 | 89.7                     | 89.7  | 0.1            | 9.0                   | 9.0   | 3.4%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0326            | 0.1304 | 86      | --   |                 | 86                       | 86    | 0.1            | 8.6                   | 8.6   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0343            | 0.1372 | 93.2    | --   |                 | 93.2                     | 93.2  | 0.1            | 9.3                   | 9.3   | 3.5%                 | 3.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0207            | 0.0828 | 85.1    | --   |                 | 85.1                     | 85.1  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0401            | 0.1604 | 95.6    | --   |                 | 95.6                     | 95.6  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0344            | 0.1376 | 94.5    | --   |                 | 94.5                     | 94.5  | 0.01           | 0.9                   | 0.9   | 0.4%                 | 0.4%  |
| OCDF                | 0.0769            | 0.3076 | 93.8    | J    |                 | 93.8                     | 46.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.101             | 0.404  | 185     | --   |                 | 185                      | 185   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0553            | 0.2212 | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0741            | 0.2964 | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.192             | 0.768  | 237     | --   |                 | 237                      | 237   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.201             | 0.804  | 232     | --   |                 | 232                      | 232   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.223             | 0.892  | 248     | --   |                 | 248                      | 248   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.254             | 1.016  | 233     | --   |                 | 233                      | 233   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.124             | 0.496  | 216     | --   |                 | 216                      | 216   | 0.1            | 21.6                  | 21.6  | 8.1%                 | 8.1%  |
| PCB-156             | 0.355             | 1.42   | 230     | --   |                 | 230                      | 230   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.367             | 1.468  | 232     | --   |                 | 232                      | 232   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.361             | 1.444  | 241     | --   |                 | 241                      | 241   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.127             | 0.508  | 206     | --   |                 | 206                      | 206   | 0.01           | 2.1                   | 2.1   | 0.8%                 | 0.8%  |
| PCB-189             | 0.104             | 0.416  | 224     | --   |                 | 224                      | 224   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 241.8             | 241.8 | 24.0      | 24.0  | 265.8        | 265.8 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBADLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.31              | 1.24   | 21.6    | --   |                 | 21.6                     | 21.6  | 0.1            | 2.2                   | 2.2   | 0.8%                 | 0.8%  |
| 2,3,7,8-TCDD        | 0.293             | 1.172  | 21.9    | --   |                 | 21.9                     | 21.9  | 1              | 21.9                  | 21.9  | 7.7%                 | 7.8%  |
| 1,2,3,7,8-PeCDF     | 0.466             | 1.864  | 120     | --   |                 | 120                      | 120   | 0.05           | 6.0                   | 6.0   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.239             | 0.956  | 107     | --   |                 | 107                      | 107   | 0.5            | 53.5                  | 53.5  | 18.8%                | 19.0% |
| 1,2,3,7,8-PeCDD     | 0.386             | 1.544  | 110     | --   |                 | 110                      | 110   | 1              | 110.0                 | 110.0 | 38.7%                | 39.0% |
| 1,2,3,4,7,8-HxCDF   | 0.122             | 0.488  | 95.5    | I    |                 | 95.5                     | 95.5  | 0.1            | 9.6                   | 9.6   | 3.4%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.117             | 0.468  | 89      | I    |                 | 89                       | 89    | 0.1            | 8.9                   | 8.9   | 3.1%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.248             | 0.992  | 102     | I    |                 | 102                      | 102   | 0.1            | 10.2                  | 10.2  | 3.6%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.517             | 2.068  | 103     | --   |                 | 103                      | 103   | 0.1            | 10.3                  | 10.3  | 3.6%                 | 3.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.156             | 0.624  | 89      | I    |                 | 89                       | 89    | 0.1            | 8.9                   | 8.9   | 3.1%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.179             | 0.716  | 86.3    | I    |                 | 86.3                     | 86.3  | 0.1            | 8.6                   | 8.6   | 3.0%                 | 3.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.175             | 0.7    | 37.1    | IJ   |                 | 37.1                     | 18.6  | 0.1            | 3.7                   | 1.9   | 1.3%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.477             | 1.908  | 85.7    | I    |                 | 85.7                     | 85.7  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 1.03              | 4.12   | 101     | --   |                 | 101                      | 101   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0488            | 0.1952 | 96.3    | I    |                 | 96.3                     | 96.3  | 0.01           | 1.0                   | 1.0   | 0.3%                 | 0.3%  |
| OCDF                | 0.913             | 3.652  | 263     | J    |                 | 263                      | 131.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.836             | 3.344  | 206     | --   |                 | 206                      | 206   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.142             | 0.568  | 245     | I    |                 | 245                      | 245   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.139             | 0.556  | 247     | I    |                 | 247                      | 247   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.279             | 1.116  | 241     | --   |                 | 241                      | 241   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.291             | 1.164  | 247     | --   |                 | 247                      | 247   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.314             | 1.256  | 256     | J    |                 | 256                      | 128   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.357             | 1.428  | 249     | --   |                 | 249                      | 249   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.315             | 1.26   | 244     | --   |                 | 244                      | 244   | 0.1            | 24.4                  | 24.4  | 8.6%                 | 8.7%  |
| PCB-156             | 0.232             | 0.928  | 228     | --   |                 | 228                      | 228   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.24              | 0.96   | 232     | --   |                 | 232                      | 232   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.236             | 0.944  | 234     | --   |                 | 234                      | 234   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0917            | 0.3668 | 240     | --   |                 | 240                      | 240   | 0.01           | 2.4                   | 2.4   | 0.8%                 | 0.9%  |
| PCB-189             | 0.145             | 0.58   | 225     | --   |                 | 225                      | 225   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 256.7             | 254.9 | 27.1      | 27.1  | 283.8        | 282.0 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAELCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.037             | 0.148  | 20.6    | --   |                 | 20.6                     | 20.6  | 0.1            | 2.1                   | 2.1   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0134            | 0.0536 | 20.1    | --   |                 | 20.1                     | 20.1  | 1              | 20.1                  | 20.1  | 7.1%                 | 7.2%  |
| 1,2,3,7,8-PeCDF     | 0.0924            | 0.3696 | 124     | --   |                 | 124                      | 124   | 0.05           | 6.2                   | 6.2   | 2.2%                 | 2.2%  |
| 2,3,4,7,8-PeCDF     | 0.0496            | 0.1984 | 103     | --   |                 | 103                      | 103   | 0.5            | 51.5                  | 51.5  | 18.3%                | 18.5% |
| 1,2,3,7,8-PeCDD     | 0.0571            | 0.2284 | 110     | --   |                 | 110                      | 110   | 1              | 110.0                 | 110.0 | 39.1%                | 39.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0669            | 0.2676 | 95.5    | --   |                 | 95.5                     | 95.5  | 0.1            | 9.6                   | 9.6   | 3.4%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.077             | 0.308  | 92.3    | --   |                 | 92.3                     | 92.3  | 0.1            | 9.2                   | 9.2   | 3.3%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.103             | 0.412  | 104     | --   |                 | 104                      | 104   | 0.1            | 10.4                  | 10.4  | 3.7%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.179             | 0.716  | 90.6    | --   |                 | 90.6                     | 90.6  | 0.1            | 9.1                   | 9.1   | 3.2%                 | 3.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0278            | 0.1112 | 100     | --   |                 | 100                      | 100   | 0.1            | 10.0                  | 10.0  | 3.6%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.0237            | 0.0948 | 89.3    | --   |                 | 89.3                     | 89.3  | 0.1            | 8.9                   | 8.9   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0264            | 0.1056 | 52      | J    |                 | 52                       | 26    | 0.1            | 5.2                   | 2.6   | 1.8%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0703            | 0.2812 | 82.1    | --   |                 | 82.1                     | 82.1  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.144             | 0.576  | 94.3    | --   |                 | 94.3                     | 94.3  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0988            | 0.3952 | 98.9    | --   |                 | 98.9                     | 98.9  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.157             | 0.628  | 177     | --   |                 | 177                      | 177   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.126             | 0.504  | 208     | --   |                 | 208                      | 208   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0923            | 0.3692 | 234     | --   |                 | 234                      | 234   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0884            | 0.3536 | 226     | --   |                 | 226                      | 226   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.831             | 3.324  | 238     | --   |                 | 238                      | 238   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.869             | 3.476  | 229     | --   |                 | 229                      | 229   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.954             | 3.816  | 246     | --   |                 | 246                      | 246   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 1.08              | 4.32   | 225     | --   |                 | 225                      | 225   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.172             | 0.688  | 238     | --   |                 | 238                      | 238   | 0.1            | 23.8                  | 23.8  | 8.4%                 | 8.5%  |
| PCB-156             | 1.69              | 6.76   | 223     | --   |                 | 223                      | 223   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 1.75              | 7      | 227     | --   |                 | 227                      | 227   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 1.72              | 6.88   | 229     | --   |                 | 229                      | 229   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.121             | 0.484  | 236     | --   |                 | 236                      | 236   | 0.01           | 2.4                   | 2.4   | 0.8%                 | 0.8%  |
| PCB-189             | 0.216             | 0.864  | 218     | --   |                 | 218                      | 218   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 255.0             | 252.4 | 26.5      | 26.5  | 281.5        | 278.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAFLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0279            | 0.1116 | 17.7    | --   |                 | 17.7                     | 17.7  | 0.1            | 1.8                   | 1.8   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0346            | 0.1384 | 18.5    | --   |                 | 18.5                     | 18.5  | 1              | 18.5                  | 18.5  | 7.1%                 | 7.2%  |
| 1,2,3,7,8-PeCDF     | 0.0393            | 0.1572 | 109     | --   |                 | 109                      | 109   | 0.05           | 5.5                   | 5.5   | 2.1%                 | 2.1%  |
| 2,3,4,7,8-PeCDF     | 0.0248            | 0.0992 | 95      | --   |                 | 95                       | 95    | 0.5            | 47.5                  | 47.5  | 18.2%                | 18.4% |
| 1,2,3,7,8-PeCDD     | 0.0141            | 0.0564 | 96.5    | --   |                 | 96.5                     | 96.5  | 1              | 96.5                  | 96.5  | 36.9%                | 37.5% |
| 1,2,3,4,7,8-HxCDF   | 0.0322            | 0.1288 | 93.8    | --   |                 | 93.8                     | 93.8  | 0.1            | 9.4                   | 9.4   | 3.6%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0285            | 0.114  | 87.3    | --   |                 | 87.3                     | 87.3  | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0429            | 0.1716 | 95.6    | --   |                 | 95.6                     | 95.6  | 0.1            | 9.6                   | 9.6   | 3.7%                 | 3.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0572            | 0.2288 | 87      | --   |                 | 87                       | 87    | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0224            | 0.0896 | 107     | --   |                 | 107                      | 107   | 0.1            | 10.7                  | 10.7  | 4.1%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.021             | 0.084  | 82.3    | --   |                 | 82.3                     | 82.3  | 0.1            | 8.2                   | 8.2   | 3.2%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0217            | 0.0868 | 69.8    | J    |                 | 69.8                     | 34.9  | 0.1            | 7.0                   | 3.5   | 2.7%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0454            | 0.1816 | 84.3    | --   |                 | 84.3                     | 84.3  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0817            | 0.3268 | 104     | --   |                 | 104                      | 104   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00519           | 0.0208 | 99.1    | --   |                 | 99.1                     | 99.1  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0329            | 0.1316 | 266     | J    |                 | 266                      | 133   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0178            | 0.0712 | 205     | --   |                 | 205                      | 205   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0542            | 0.2168 | 213     | --   |                 | 213                      | 213   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0676            | 0.2704 | 212     | --   |                 | 212                      | 212   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.288             | 1.152  | 251     | J    |                 | 251                      | 125.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.301             | 1.204  | 263     | J    |                 | 263                      | 131.5 | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.0%  |
| PCB-118             | 0.307             | 1.228  | 262     | J    |                 | 262                      | 131   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.349             | 1.396  | 254     | J    |                 | 254                      | 127   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.199             | 0.796  | 238     | --   |                 | 238                      | 238   | 0.1            | 23.8                  | 23.8  | 9.1%                 | 9.2%  |
| PCB-156             | 0.145             | 0.58   | 226     | --   |                 | 226                      | 226   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.15              | 0.6    | 230     | --   |                 | 230                      | 230   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.147             | 0.588  | 218     | --   |                 | 218                      | 218   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0453            | 0.1812 | 200     | --   |                 | 200                      | 200   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0439            | 0.1756 | 231     | --   |                 | 231                      | 231   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 234.9             | 231.4 | 26.1      | 26.1  | 261.0        | 257.5 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAGLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0306            | 0.1224 | 17      | --   |                 | 17                       | 17    | 0.1            | 1.7                   | 1.7   | 0.6%                 | 0.6%  |
| 2,3,7,8-TCDD        | 0.0112            | 0.0448 | 17.8    | --   |                 | 17.8                     | 17.8  | 1              | 17.8                  | 17.8  | 6.7%                 | 6.7%  |
| 1,2,3,7,8-PeCDF     | 0.0207            | 0.0828 | 96.2    | --   |                 | 96.2                     | 96.2  | 0.05           | 4.8                   | 4.8   | 1.8%                 | 1.8%  |
| 2,3,4,7,8-PeCDF     | 0.0174            | 0.0696 | 92.6    | --   |                 | 92.6                     | 92.6  | 0.5            | 46.3                  | 46.3  | 17.5%                | 17.5% |
| 1,2,3,7,8-PeCDD     | 0.0404            | 0.1616 | 106     | --   |                 | 106                      | 106   | 1              | 106.0                 | 106.0 | 40.0%                | 40.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0267            | 0.1068 | 86.6    | --   |                 | 86.6                     | 86.6  | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0221            | 0.0884 | 79.3    | --   |                 | 79.3                     | 79.3  | 0.1            | 7.9                   | 7.9   | 3.0%                 | 3.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.0268            | 0.1072 | 87.3    | --   |                 | 87.3                     | 87.3  | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0317            | 0.1268 | 86.3    | --   |                 | 86.3                     | 86.3  | 0.1            | 8.6                   | 8.6   | 3.3%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0219            | 0.0876 | 98.1    | --   |                 | 98.1                     | 98.1  | 0.1            | 9.8                   | 9.8   | 3.7%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0185            | 0.074  | 87      | --   |                 | 87                       | 87    | 0.1            | 8.7                   | 8.7   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0201            | 0.0804 | 91.6    | --   |                 | 91.6                     | 91.6  | 0.1            | 9.2                   | 9.2   | 3.5%                 | 3.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.00296           | 0.0118 | 83.3    | --   |                 | 83.3                     | 83.3  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.00402           | 0.0161 | 96.6    | --   |                 | 96.6                     | 96.6  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00266           | 0.0106 | 103     | --   |                 | 103                      | 103   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0239            | 0.0956 | 193     | --   |                 | 193                      | 193   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0347            | 0.1388 | 203     | --   |                 | 203                      | 203   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0366            | 0.1464 | 206     | --   |                 | 206                      | 206   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.042             | 0.168  | 207     | --   |                 | 207                      | 207   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.348             | 1.392  | 242     | --   |                 | 242                      | 242   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.364             | 1.456  | 239     | --   |                 | 239                      | 239   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.366             | 1.464  | 252     | J    |                 | 252                      | 126   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.416             | 1.664  | 236     | --   |                 | 236                      | 236   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.125             | 0.5    | 215     | --   |                 | 215                      | 215   | 0.1            | 21.5                  | 21.5  | 8.1%                 | 8.1%  |
| PCB-156             | 0.238             | 0.952  | 227     | --   |                 | 227                      | 227   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 0.246             | 0.984  | 235     | --   |                 | 235                      | 235   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 0.242             | 0.968  | 222     | --   |                 | 222                      | 222   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0608            | 0.2432 | 209     | --   |                 | 209                      | 209   | 0.01           | 2.1                   | 2.1   | 0.8%                 | 0.8%  |
| PCB-189             | 0.074             | 0.296  | 228     | --   |                 | 228                      | 228   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 241.0             | 241.0 | 23.9      | 23.9  | 264.9        | 264.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | GBAHLCS | Lab Spike |
|-----------|---------|-----------|
|           |         |           |

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0354            | 0.1416 | 19.3    | --   |                 | 19.3                     | 19.3  | 0.1            | 1.9                   | 1.9   | 0.7%                 | 0.7%  |
| 2,3,7,8-TCDD        | 0.0201            | 0.0804 | 18.6    | --   |                 | 18.6                     | 18.6  | 1              | 18.6                  | 18.6  | 6.9%                 | 7.0%  |
| 1,2,3,7,8-PeCDF     | 0.0201            | 0.0804 | 108     | --   |                 | 108                      | 108   | 0.05           | 5.4                   | 5.4   | 2.0%                 | 2.0%  |
| 2,3,4,7,8-PeCDF     | 0.0174            | 0.0696 | 94.5    | --   |                 | 94.5                     | 94.5  | 0.5            | 47.3                  | 47.3  | 17.6%                | 17.9% |
| 1,2,3,7,8-PeCDD     | 0.0166            | 0.0664 | 105     | --   |                 | 105                      | 105   | 1              | 105.0                 | 105.0 | 39.2%                | 39.7% |
| 1,2,3,4,7,8-HxCDF   | 0.0288            | 0.1152 | 94.2    | --   |                 | 94.2                     | 94.2  | 0.1            | 9.4                   | 9.4   | 3.5%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.025             | 0.1    | 85.5    | --   |                 | 85.5                     | 85.5  | 0.1            | 8.6                   | 8.6   | 3.2%                 | 3.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0319            | 0.1276 | 90.2    | --   |                 | 90.2                     | 90.2  | 0.1            | 9.0                   | 9.0   | 3.4%                 | 3.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.0405            | 0.162  | 86.1    | --   |                 | 86.1                     | 86.1  | 0.1            | 8.6                   | 8.6   | 3.2%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0577            | 0.2308 | 96.5    | --   |                 | 96.5                     | 96.5  | 0.1            | 9.7                   | 9.7   | 3.6%                 | 3.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0498            | 0.1992 | 87.9    | --   |                 | 87.9                     | 87.9  | 0.1            | 8.8                   | 8.8   | 3.3%                 | 3.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0505            | 0.202  | 74.6    | J    |                 | 74.6                     | 37.3  | 0.1            | 7.5                   | 3.7   | 2.8%                 | 1.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.072             | 0.288  | 85.2    | --   |                 | 85.2                     | 85.2  | 0.01           | 0.9                   | 0.9   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.106             | 0.424  | 97.8    | --   |                 | 97.8                     | 97.8  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0538            | 0.2152 | 102     | --   |                 | 102                      | 102   | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |
| OCDF                | 0.0524            | 0.2096 | 208     | --   |                 | 208                      | 208   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0707            | 0.2828 | 196     | --   |                 | 196                      | 196   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0379            | 0.1516 | 214     | --   |                 | 214                      | 214   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.041             | 0.164  | 209     | --   |                 | 209                      | 209   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.229             | 0.916  | 247     | --   |                 | 247                      | 247   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.241             | 0.964  | 231     | --   |                 | 231                      | 231   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-118             | 0.304             | 1.216  | 255     | J    |                 | 255                      | 127.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-123             | 0.334             | 1.336  | 235     | --   |                 | 235                      | 235   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0972            | 0.3888 | 230     | --   |                 | 230                      | 230   | 0.1            | 23.0                  | 23.0  | 8.6%                 | 8.7%  |
| PCB-156             | 3.45              | 13.8   | 215     | --   |                 | 215                      | 215   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-157             | 3.6               | 14.4   | 225     | --   |                 | 225                      | 225   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-167             | 3.44              | 13.76  | 227     | --   |                 | 227                      | 227   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0808            | 0.3232 | 202     | --   |                 | 202                      | 202   | 0.01           | 2.0                   | 2.0   | 0.8%                 | 0.8%  |
| PCB-189             | 0.0683            | 0.2732 | 220     | --   |                 | 220                      | 220   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 242.7             | 238.9 | 25.3      | 25.3  | 268.0        | 264.2 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | LCS               | <i>Lab Spike</i> |         |      |                 |                          |       |                |                       |       |                      |       |  |
|---------------------|-------------------|------------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|--|
| Analyte             | Analytical Limits |                  | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |
|                     | EDL               | QL               | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |  |
| 2,3,7,8-TCDF        | 0.147             | 0.588            | 16.4    | --   |                 | 16.4                     | 16.4  | 0.1            | 1.6                   | 1.6   | 0.7%                 | 0.7%  |  |
| 2,3,7,8-TCDD        | 0.184             | 0.736            | 15.4    | --   |                 | 15.4                     | 15.4  | 1              | 15.4                  | 15.4  | 6.2%                 | 6.2%  |  |
| 1,2,3,7,8-PeCDF     | 0.0618            | 0.2472           | 115     | --   |                 | 115                      | 115   | 0.05           | 5.8                   | 5.8   | 2.3%                 | 2.3%  |  |
| 2,3,4,7,8-PeCDF     | 0.05              | 0.2              | 84.9    | --   |                 | 84.9                     | 84.9  | 0.5            | 42.5                  | 42.5  | 17.0%                | 17.0% |  |
| 1,2,3,7,8-PeCDD     | 0.246             | 0.984            | 101     | --   |                 | 101                      | 101   | 1              | 101.0                 | 101.0 | 40.4%                | 40.4% |  |
| 1,2,3,4,7,8-HxCDF   | 0.186             | 0.744            | 97.2    | --   |                 | 97.2                     | 97.2  | 0.1            | 9.7                   | 9.7   | 3.9%                 | 3.9%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.186             | 0.744            | 76.4    | --   |                 | 76.4                     | 76.4  | 0.1            | 7.6                   | 7.6   | 3.1%                 | 3.1%  |  |
| 2,3,4,6,7,8-HxCDF   | 0.211             | 0.844            | 87.9    | --   |                 | 87.9                     | 87.9  | 0.1            | 8.8                   | 8.8   | 3.5%                 | 3.5%  |  |
| 1,2,3,7,8,9-HxCDF   | 0.214             | 0.856            | 78.2    | --   |                 | 78.2                     | 78.2  | 0.1            | 7.8                   | 7.8   | 3.1%                 | 3.1%  |  |
| 1,2,3,4,7,8-HxCDD   | 0.232             | 0.928            | 90.4    | --   |                 | 90.4                     | 90.4  | 0.1            | 9.0                   | 9.0   | 3.6%                 | 3.6%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.183             | 0.732            | 80.9    | --   |                 | 80.9                     | 80.9  | 0.1            | 8.1                   | 8.1   | 3.2%                 | 3.2%  |  |
| 1,2,3,7,8,9-HxCDD   | 0.19              | 0.76             | 82.1    | --   |                 | 82.1                     | 82.1  | 0.1            | 8.2                   | 8.2   | 3.3%                 | 3.3%  |  |
| 1,2,3,4,6,7,8-HpCDF | 0.415             | 1.66             | 69.6    | --   |                 | 69.6                     | 69.6  | 0.01           | 0.7                   | 0.7   | 0.3%                 | 0.3%  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.828             | 3.312            | 84.1    | --   |                 | 84.1                     | 84.1  | 0.01           | 0.8                   | 0.8   | 0.3%                 | 0.3%  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.268             | 1.072            | 97.9    | --   |                 | 97.9                     | 97.9  | 0.01           | 1.0                   | 1.0   | 0.4%                 | 0.4%  |  |
| OCDF                | 0.258             | 1.032            | 151     | --   |                 | 151                      | 151   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| OCDD                | 0.341             | 1.364            | 184     | --   |                 | 184                      | 184   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-77              | 2.56              | 10.24            | 190     | --   |                 | 190                      | 190   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-81              | 1.85              | 7.4              | 193     | --   |                 | 193                      | 193   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-105             | 2.87              | 11.48            | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-114             | 2.65              | 10.6             | 195     | --   |                 | 195                      | 195   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |  |
| PCB-118             | 2.48              | 9.92             | 227     | --   |                 | 227                      | 227   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-123             | 2.53              | 10.12            | 189     | --   |                 | 189                      | 189   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-126             | 2.32              | 9.28             | 195     | --   |                 | 195                      | 195   | 0.1            | 19.5                  | 19.5  | 7.8%                 | 7.8%  |  |
| PCB-156             | 0.891             | 3.564            | 190     | --   |                 | 190                      | 190   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |  |
| PCB-157             | 0.932             | 3.728            | 194     | --   |                 | 194                      | 194   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |  |
| PCB-167             | 0.707             | 2.828            | 157     | --   |                 | 157                      | 157   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-169             | 0.816             | 3.264            | 189     | --   |                 | 189                      | 189   | 0.01           | 1.9                   | 1.9   | 0.8%                 | 0.8%  |  |
| PCB-189             | 0.668             | 2.672            | 189     | --   |                 | 189                      | 189   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 228.0             | 228.0 | 21.7      | 21.7  | 249.7        | 249.7 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1001              | PE Clean | REF-F   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.575             | 2.3      |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.278             | 1.112    |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 3.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.248             | 0.992    |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.368             | 1.472    |         | --   |                 | 0.2                      |       | 0.5            | 0.1                   |       | 3.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.267             | 1.068    |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 3.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.6               | 2.4      |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.432             | 1.728    | 0.822   | --   |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 4.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.767             | 3.068    |         | DB   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.746             | 2.984    |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.181             | 0.724    | 0.723   | B    |                 | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.6%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.172             | 0.688    | 1.48    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 5.5%                 | 16.7% |
| 1,2,3,7,8,9-HxCDD   | 0.164             | 0.656    | 1.11    | J    |                 | 1.1                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 6.7%  |
| 1,2,3,4,6,7,8-HpCDF | 5.4               | 21.6     |         | D    |                 | 1.4                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.695             | 2.78     |         | --   |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.356             | 1.424    | 36.4    | B    |                 | 36.4                     | 18.2  | 0.01           | 0.4                   | 0.2   | 13.4%                | 20.3% |
| OCDF                | 0.209             | 0.836    | 6.9     | B    |                 | 6.9                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.373             | 1.492    | 269     | B    |                 | 269                      | 134.5 | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.5%  |
| PCB-77              | 5.1               | 20.4     | 7.75    | B    |                 | 7.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 5.19              | 20.76    |         | --   |                 | 2.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 23.6              | 94.4     | 805     | --   |                 | 805                      | 805   | 0.0001         | 0.1                   | 0.1   | 3.0%                 | 9.0%  |
| PCB-114             | 21.8              | 87.2     | 27.1    | --   |                 | 27.1                     | 13.6  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |
| PCB-118             | 20.2              | 80.8     | 1940    | --   |                 | 1940                     | 1940  | 0.0001         | 0.2                   | 0.2   | 7.1%                 | 21.6% |
| PCB-123             | 20.7              | 82.8     | 37.8    | --   |                 | 37.8                     | 18.9  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-126             | 20.5              | 82       |         | --   |                 | 10.3                     |       | 0.1            | 1.0                   |       | 37.8%                |       |
| PCB-156             | 2.27              | 9.08     | 240     | --   |                 | 240                      | 240   | 0.0005         | 0.1                   | 0.1   | 4.4%                 | 13.4% |
| PCB-157             | 2.38              | 9.52     | 54.2    | --   |                 | 54.2                     | 54.2  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 3.0%  |
| PCB-167             | 1.72              | 6.88     | 65.4    | --   |                 | 65.4                     | 65.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-169             | 1.98              | 7.92     |         | --   |                 | 1                        |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| PCB-189             | 0.739             | 2.956    | 9.13    | --   |                 | 9.1                      | 9.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.5   | 1.4       | 0.4   | 2.6          | 0.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1003              | PE Clean | REF-B   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.396             | 1.584    |         | U    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.233             | 0.932    |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 5.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.437             | 1.748    |         | --   |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.532             | 2.128    |         | --   |                 | 0.3                      |       | 0.5            | 0.2                   |       | 8.5%                 |       |
| 1,2,3,7,8-PeCDD     | 0.65              | 2.6      |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 17.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.817             | 3.268    | 0.803   | --   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.806             | 3.224    | 0.978   | D    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 2.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.531             | 2.124    | 1.03    | B    |                 | 1                        | 0.3   | 0.1            | 0.1                   | 0.0   | 5.7%                 | 5.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.574             | 2.296    | 0.765   | B    |                 | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.5%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.627             | 2.508    |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.117             | 0.468    | 0.951   | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 5.7%                 | 17.9% |
| 1,2,3,7,8,9-HxCDD   | 0.116             | 0.464    | 0.794   | J    |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.5%                 | 7.2%  |
| 1,2,3,4,6,7,8-HpCDF | 4.38              | 17.52    |         | D    |                 | 1.1                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.54              | 2.16     | 1.11    | --   |                 | 1.1                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 1.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.287             | 1.148    | 20.8    | --   |                 | 20.8                     | 20.8  | 0.01           | 0.2                   | 0.2   | 11.8%                | 37.2% |
| OCDF                | 0.806             | 3.224    | 7.79    | B    |                 | 7.8                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.495             | 1.98     | 149     | B    |                 | 149                      | 74.5  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.3%  |
| PCB-77              | 1.51              | 6.04     | 5.41    | B    |                 | 5.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.49              | 5.96     |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 7.43              | 29.72    | 279     | --   |                 | 279                      | 279   | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 5.0%  |
| PCB-114             | 6.87              | 27.48    | 14.8    | --   |                 | 14.8                     | 7.4   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| PCB-118             | 6.53              | 26.12    | 669     | --   |                 | 669                      | 669   | 0.0001         | 0.1                   | 0.1   | 3.8%                 | 12.0% |
| PCB-123             | 6.67              | 26.68    | 10.7    | --   |                 | 10.7                     | 5.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 5.97              | 23.88    |         | --   |                 | 3                        |       | 0.1            | 0.3                   |       | 17.0%                |       |
| PCB-156             | 1.33              | 5.32     | 76.3    | --   |                 | 76.3                     | 76.3  | 0.0005         | 0.0                   | 0.0   | 2.2%                 | 6.8%  |
| PCB-157             | 1.39              | 5.56     | 19.2    | --   |                 | 19.2                     | 19.2  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 1.7%  |
| PCB-167             | 0.973             | 3.892    | 19.6    | --   |                 | 19.6                     | 19.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.12              | 4.48     |         | --   |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.766             | 3.064    | 2.98    | --   |                 | 3                        | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 0.3   | 0.4       | 0.1   | 1.7          | 0.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1010              | PE Clean | REF-F   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.4               | 1.6      |         | U    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.405             | 1.62     |         | --   |                 | 0.2                      |       | 1              | 0.2                   |       | 12.4%                |       |
| 1,2,3,7,8-PeCDF     | 0.343             | 1.372    |         | --   |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.266             | 1.064    |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.591             | 2.364    |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 18.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.59              | 2.36     | 0.619   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.7%                 | 5.5%  |
| 1,2,3,6,7,8-HxCDF   | 1.17              | 4.68     |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.834             | 3.336    |         | --   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.973             | 3.892    |         | --   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.813             | 3.252    |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 1.25              | 5        |         | E    |                 | 0.6                      |       | 0.1            | 0.1                   |       | 3.7%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.156             | 0.624    | 0.918   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 5.6%                 | 16.4% |
| 1,2,3,4,6,7,8-HpCDF | 6.18              | 24.72    |         | D    |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.9%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.537             | 2.148    | 0.675   | --   |                 | 0.7                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDD | 0.721             | 2.884    | 35.7    | --   |                 | 35.7                     | 35.7  | 0.01           | 0.4                   | 0.4   | 22.1%                | 65.0% |
| OCDF                | 0.241             | 0.964    | 4.89    | B    |                 | 4.9                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.275             | 1.1      | 249     | B    |                 | 249                      | 124.5 | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 2.3%  |
| PCB-77              | 2.11              | 8.44     | 4.22    | B    |                 | 4.2                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.69              | 6.76     | 0.97    | --   |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 4.52              | 18.08    | 94.8    | --   |                 | 94.8                     | 94.8  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 1.7%  |
| PCB-114             | 4.18              | 16.72    | 4.98    | --   |                 | 5                        | 2.5   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 4.14              | 16.56    | 231     | --   |                 | 231                      | 231   | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 4.2%  |
| PCB-123             | 4.22              | 16.88    | 6.07    | --   |                 | 6.1                      | 3     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 3.94              | 15.76    |         | --   |                 | 2                        |       | 0.1            | 0.2                   |       | 12.4%                |       |
| PCB-156             | 1.24              | 4.96     | 34.8    | --   |                 | 34.8                     | 34.8  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 3.2%  |
| PCB-157             | 1.3               | 5.2      | 9.52    | --   |                 | 9.5                      | 9.5   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.9%  |
| PCB-167             | 0.936             | 3.744    | 10.7    | --   |                 | 10.7                     | 10.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.08              | 4.32     |         | --   |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.669             | 2.676    | 2.3     | --   |                 | 2.3                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 0.5   | 0.2       | 0.0   | 1.6          | 0.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1015              | PE Clean | REF-S   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.293             | 1.172    |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 2,3,7,8-TCDD        | 0.159             | 0.636    |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 8.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.262             | 1.048    |         | EJI  |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.4%                 |       |
| 2,3,4,7,8-PeCDF     | 0.309             | 1.236    |         | --   |                 | 0.2                      |       | 0.5            | 0.1                   |       | 8.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.758             | 3.032    |         | E    |                 | 0.4                      |       | 1              | 0.4                   |       | 32.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.244             | 0.976    | 0.325   | --   |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 8.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.542             | 2.168    |         | JI   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.453             | 1.812    |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.403             | 1.612    | 0.515   | B    |                 | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 4.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.615             | 2.46     |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.162             | 0.648    | 0.478   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 8.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.165             | 0.66     | 0.496   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 8.2%  |
| 1,2,3,4,6,7,8-HpCDF | 2.4               | 9.6      |         | D    |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.737             | 2.948    |         | --   |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.408             | 1.632    | 13.3    | --   |                 | 13.3                     | 13.3  | 0.01           | 0.1                   | 0.1   | 10.6%                | 54.2% |
| OCDF                | 0.285             | 1.14     | 2.78    | B    |                 | 2.8                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.577             | 2.308    | 82      | B    |                 | 82                       | 41    | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.7%  |
| PCB-77              | 1.37              | 5.48     | 4.2     | B    |                 | 4.2                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.09              | 4.36     |         | --   |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 4.39              | 17.56    | 71.9    | --   |                 | 71.9                     | 71.9  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 2.9%  |
| PCB-114             | 4.06              | 16.24    | 4.05    | --   |                 | 2                        |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 3.66              | 14.64    | 165     | --   |                 | 165                      | 165   | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 6.7%  |
| PCB-123             | 3.74              | 14.96    | 4.21    | --   |                 | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 3.58              | 14.32    |         | --   |                 | 1.8                      |       | 0.1            | 0.2                   |       | 14.4%                |       |
| PCB-156             | 0.824             | 3.296    | 22.2    | --   |                 | 22.2                     | 22.2  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 4.5%  |
| PCB-157             | 0.862             | 3.448    | 5.65    | --   |                 | 5.7                      | 5.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 1.2%  |
| PCB-167             | 0.622             | 2.488    | 6.13    | --   |                 | 6.1                      | 6.1   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.717             | 2.868    |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.277             | 1.108    | 1.11    | --   |                 | 1.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.1   | 0.2       | 0.0   | 1.2          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 109               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0332            | 0.1328   | 0.14    | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0527            | 0.2108   | 0.0825  | --   |                 | 0.1                      | 0     | 1              | 0.1                   | 0.0   | 5.0%                 | 0.0%  |
| 1,2,3,7,8-PeCDF     | 0.227             | 0.908    | 0.175   | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 1.55              | 6.2      | 0.115   | R    |                 | 0.8                      |       | 0.5            | 0.4                   |       | 20.1%                |       |
| 1,2,3,7,8-PeCDD     | 0.597             | 2.388    |         | R    |                 | 0.3                      |       | 1              | 0.3                   |       | 15.1%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0629            | 0.2516   | 0.44    | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.723             | 2.892    |         | D    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0684            | 0.2736   | 0.522   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 4.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0719            | 0.2876   | 0.361   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 2.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0264            | 0.1056   | 0.842   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 7.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0223            | 0.0892   | 1.53    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 7.6%                 | 14.8% |
| 1,2,3,7,8,9-HxCDD   | 0.0213            | 0.0852   | 1.01    | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 5.0%                 | 9.9%  |
| 1,2,3,4,6,7,8-HpCDF | 6.45              | 25.8     |         | DJ   | <5x*B           | 1.6                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.064             | 0.256    | 0.403   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0992            | 0.3968   | 47.1    | --   |                 | 47.1                     | 47.1  | 0.01           | 0.5                   | 0.5   | 23.7%                | 46.5% |
| OCDF                | 0.0549            | 0.2196   | 8.79    | --   |                 | 8.8                      | 8.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.035             | 0.14     | 484     | --   |                 | 484                      | 484   | 0.0001         | 0.0                   | 0.0   | 2.4%                 | 4.8%  |
| PCB-77              | 0.127             | 0.508    | 4.62    | B    | <5x*B           | 4.6                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.143             | 0.572    | 0.503   | --   |                 | 0.5                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.6               | 2.4      | 99.7    | --   |                 | 99.7                     | 99.7  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.0%  |
| PCB-114             | 0.597             | 2.388    | 8.39    | --   |                 | 8.4                      | 8.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-118             | 0.476             | 1.904    | 223     | B    | <5x*B           | 223                      | 111.5 | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.1%  |
| PCB-123             | 0.535             | 2.14     |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.225             | 0.9      | 0.899   | BJ   | <5x*B           | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.5%                 | 2.0%  |
| PCB-156             | 0.154             | 0.616    | 33      | --   |                 | 33                       | 33    | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.6%  |
| PCB-157             | 0.163             | 0.652    | 9.2     | --   |                 | 9.2                      | 9.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-167             | 0.15              | 0.6      | 13.3    | J    |                 | 13.3                     | 6.7   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.101             | 0.404    | 0.153   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 2.29              | 9.16     |         | E    | <5x*B           | 1.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.0   | 0.1       | 0.0   | 1.9          | 1.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 110 PE Clean Ref-F-26

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.126             | 0.504  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0164            | 0.0656 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0244            | 0.0976 | 0.143   | --   |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 2,3,4,7,8-PeCDF     | 0.0216            | 0.0864 | 0.19    | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 5.3%                 | 5.7%  |
| 1,2,3,7,8-PeCDD     | 0.0143            | 0.0572 | 0.588   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 31.9%                | 34.0% |
| 1,2,3,4,7,8-HxCDF   | 0.052             | 0.208  | 0.41    | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.344             | 1.376  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 1.31              | 5.24   |         | D    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0649            | 0.2596 | 0.352   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0668            | 0.2672 | 0.913   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.8%                 | 5.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0591            | 0.2364 | 1.77    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 9.6%                 | 10.2% |
| 1,2,3,7,8,9-HxCDD   | 0.0631            | 0.2524 | 1.36    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 7.4%                 | 7.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0357            | 0.1428 | 4.87    | --   |                 | 4.9                      | 4.9   | 0.01           | 0.0                   | 0.0   | 2.6%                 | 2.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0581            | 0.2324 | 0.524   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0366            | 0.1464 | 40.2    | --   |                 | 40.2                     | 40.2  | 0.01           | 0.4                   | 0.4   | 21.4%                | 22.8% |
| OCDF                | 0.0466            | 0.1864 | 7.24    | J    |                 | 7.2                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0788            | 0.3152 | 393     | --   |                 | 393                      | 393   | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 2.2%  |
| PCB-77              | 0.0207            | 0.0828 | 4.65    | B    | <5x*B           | 4.7                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0275            | 0.11   | 0.422   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 15.8              | 63.2   | 77.7    | --   |                 | 77.7                     | 77.7  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-114             | 16.5              | 66     | 4.23    | B    | <5x*B           | 8.3                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-118             | 20                | 80     | 183     | J    |                 | 183                      | 91.5  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.5%  |
| PCB-123             | 22.8              | 91.2   |         | --   |                 | 11.4                     |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-126             | 0.132             | 0.528  | 0.808   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 4.5%  |
| PCB-156             | 0.229             | 0.916  | 26.5    | --   |                 | 26.5                     | 26.5  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-157             | 0.237             | 0.948  | 7.03    | --   |                 | 7                        | 7     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.233             | 0.932  | 11.4    | --   |                 | 11.4                     | 11.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0782            | 0.3128 |         | --   | <5x*B           | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.172             | 0.688  | 1.79    | B    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.5   | 0.1       | 0.1   | 1.6          | 1.6   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 113 PE Clean Ref-F-22

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.737             | 2.948  |         | --   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.7%                 |       |
| 2,3,7,8-TCDD        | 0.0986            | 0.3944 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.213             | 0.852  |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.156             | 0.624  |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0934            | 0.3736 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 1.14              | 4.56   |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.513             | 2.052  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.538             | 2.152  |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.976             | 3.904  |         | --   | <5x*B           | 0.5                      |       | 0.1            | 0.1                   |       | 4.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.14              | 0.56   | 1       | B    | <5x*B           | 1                        | 0.5   | 0.1            | 0.1                   | 0.1   | 9.4%                 | 7.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.121             | 0.484  | 1.71    | I    |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 15.9%                | 27.0% |
| 1,2,3,7,8,9-HxCDD   | 0.571             | 2.284  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 31.2              | 124.8  |         | D    | <5x*B           | 7.8                      |       | 0.01           | 0.1                   |       | 7.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 2.61              | 10.44  |         | E    |                 | 1.3                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.471             | 1.884  | 33.2    | --   |                 | 33.2                     | 33.2  | 0.01           | 0.3                   | 0.3   | 31.1%                | 52.7% |
| OCDF                | 0.67              | 2.68   | 45      | --   |                 | 45                       | 45    | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| OCDD                | 0.676             | 2.704  | 271     | --   |                 | 271                      | 271   | 0.0001         | 0.0                   | 0.0   | 2.5%                 | 4.3%  |
| PCB-77              | 4.02              | 16.08  |         | E    | <5x*B           | 2                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-81              | 0.116             | 0.464  | 0.382   | B    | <5x*B           | 0.4                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.77              | 3.08   | 83.9    | --   |                 | 83.9                     | 83.9  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.3%  |
| PCB-114             | 0.765             | 3.06   | 4.52    | B    | <5x*B           | 4.5                      | 2.3   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.67              | 2.68   | 189     | --   |                 | 189                      | 189   | 0.0001         | 0.0                   | 0.0   | 1.8%                 | 3.0%  |
| PCB-123             | 0.754             | 3.016  |         | --   |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.666             | 2.664  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| PCB-156             | 0.328             | 1.312  | 29.1    | --   |                 | 29.1                     | 29.1  | 0.0005         | 0.0                   | 0.0   | 1.4%                 | 2.3%  |
| PCB-157             | 0.346             | 1.384  | 7.55    | --   |                 | 7.6                      | 7.6   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-167             | 0.319             | 1.276  | 12      | --   |                 | 12                       | 12    | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0374            | 0.1496 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.91              | 7.64   |         | E    |                 | 1                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.9               | 0.6   | 0.0       | 0.0   | 0.9          | 0.6   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 127 PE Clean Ref-F-20

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0859            | 0.3436 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0734            | 0.2936 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.157             | 0.628  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0809            | 0.3236 | 0.187   | --   |                 | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 4.8%                 | 2.6%  |
| 1,2,3,7,8-PeCDD     | 0.091             | 0.364  | 0.598   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 28.9%                | 31.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0513            | 0.2052 | 0.502   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.4%                 | 1.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.861             | 3.444  |         | D    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.053             | 0.212  | 0.586   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.0612            | 0.2448 | 0.344   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.4%                 | 1.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0919            | 0.3676 | 0.891   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 4.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0753            | 0.3012 | 2.04    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 9.6%                 | 10.5% |
| 1,2,3,7,8,9-HxCDD   | 0.0736            | 0.2944 | 1.35    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 6.7%                 | 7.4%  |
| 1,2,3,4,6,7,8-HpCDF | 8.19              | 32.76  |         | DJ   | <5x*B           | 2                        |       | 0.01           | 0.0                   |       | 1.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.111             | 0.444  | 0.537   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.119             | 0.476  | 56.8    | --   |                 | 56.8                     | 56.8  | 0.01           | 0.6                   | 0.6   | 27.3%                | 30.0% |
| OCDF                | 0.145             | 0.58   | 13.7    | --   |                 | 13.7                     | 13.7  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0509            | 0.2036 | 656     | --   |                 | 656                      | 656   | 0.0001         | 0.1                   | 0.1   | 3.2%                 | 3.5%  |
| PCB-77              | 0.051             | 0.204  | 4.41    | B    | <5x*B           | 4.4                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.547             | 2.188  |         | E    |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.7               | 6.8    | 58.9    | B    | <5x*B           | 58.9                     | 29.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 1.69              | 6.76   | 2.95    | B    | <5x*B           | 3                        | 0.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 1.34              | 5.36   | 126     | B    | <5x*B           | 126                      | 63    | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-123             | 1.51              | 6.04   |         | --   |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.182             | 0.728  | 0.919   | BJ   | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 2.6%  |
| PCB-156             | 0.385             | 1.54   | 21      | B    | <5x*B           | 21                       | 10.5  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 6.96              | 27.84  |         | E    | <5x*B           | 3.5                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-167             | 9.89              | 39.56  |         | E    | <5x*B           | 4.9                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.0805            | 0.322  | 0.146   | --   |                 | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-189             | 1.55              | 6.2    |         | EI   | <5x*B           | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.9   | 0.1       | 0.1   | 2.1          | 2.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 136               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.157             | 0.628    |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.153             | 0.612    |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 4.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.142             | 0.568    |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.197             | 0.788    |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 2.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.724             | 2.896    |         | E    |                 | 0.4                      |       | 1              | 0.4                   |       | 18.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0775            | 0.31     | 0.548   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.3%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.0673            | 0.2692   | 0.687   | BI   | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 2.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.104             | 0.416    | 0.703   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 5.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.171             | 0.684    | 0.776   | B    | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.7%                 | 2.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.0212            | 0.0848   | 1.34    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 6.0%                 | 9.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.018             | 0.072    | 1.92    | I    |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 8.8%                 | 13.7% |
| 1,2,3,7,8,9-HxCDD   | 0.0201            | 0.0804   | 0.914   | IJ   |                 | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.2%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0545            | 0.218    | 5.75    | I    |                 | 5.8                      | 5.8   | 0.01           | 0.1                   | 0.1   | 2.7%                 | 4.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.117             | 0.468    | 0.894   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0769            | 0.3076   | 66.7    | --   |                 | 66.7                     | 66.7  | 0.01           | 0.7                   | 0.7   | 30.9%                | 48.0% |
| OCDF                | 0.0658            | 0.2632   | 13.4    | --   |                 | 13.4                     | 13.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.109             | 0.436    | 634     | --   |                 | 634                      | 634   | 0.0001         | 0.1                   | 0.1   | 2.9%                 | 4.6%  |
| PCB-77              | 0.0601            | 0.2404   | 4.97    | B    | <5x*B           | 5                        | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.075             | 0.3      | 0.637   | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.63              | 2.52     | 98.9    | B    | <5x*B           | 98.9                     | 49.5  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.626             | 2.504    | 4.84    | B    | <5x*B           | 4.8                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.636             | 2.544    | 214     | B    | <5x*B           | 214                      | 107   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.8%  |
| PCB-123             | 0.715             | 2.86     | 5.19    | B    | <5x*B           | 5.2                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.17              | 4.68     |         | E    |                 | 0.6                      |       | 0.1            | 0.1                   |       | 2.8%                 |       |
| PCB-156             | 0.129             | 0.516    | 32.6    | B    | <5x*B           | 32.6                     | 16.3  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |
| PCB-157             | 0.136             | 0.544    | 8.76    | --   |                 | 8.8                      | 8.8   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.125             | 0.5      | 12.7    | --   |                 | 12.7                     | 12.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.235             | 0.94     |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.084             | 0.336    | 2.22    | --   |                 | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.3               | 1.5   | 0.1       | 0.0   | 2.4          | 1.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 163               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.141             | 0.564    |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 0.5%  |      |       |      |
| 2,3,7,8-TCDD        | 0.185             | 0.74     |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       |                      | 5.2%  |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.185             | 0.74     |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       |                      | 0.3%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.195             | 0.78     |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       |                      | 2.6%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.233             | 0.932    | 0.555   | --   |                 | 0.6                      | 0.3   | 1              | 0.6                   | 0.3   | 30.9%                | 25.9% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.164             | 0.656    | 0.489   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.6%                 | 1.7%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.134             | 0.536    | 0.968   | D    |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      | 2.6%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.196             | 0.784    | 0.582   | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.1%                 | 2.6%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.414             | 1.656    |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      | 1.0%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.347             | 1.388    | 1.05    | --   |                 | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.7%                 | 4.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.294             | 1.176    | 1.68    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 8.8%                 | 14.7% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.276             | 1.104    | 0.9     | J    |                 | 0.9                      | 0.2   | 0.1            | 0.1                   | 0.0   | 4.6%                 | 1.7%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 7.79              | 31.16    |         | D    |                 | 1.9                      |       | 0.01           | 0.0                   |       |                      | 1.0%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.925             | 3.7      |         | --   |                 | 0.5                      |       | 0.01           | 0.0                   |       |                      | 0.3%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.772             | 3.088    | 39.2    | --   |                 | 39.2                     | 39.2  | 0.01           | 0.4                   | 0.4   | 20.2%                | 33.8% |      |       |      |
| OCDF                | 0.548             | 2.192    | 10.2    | J    |                 | 10.2                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| OCDD                | 0.478             | 1.912    | 296     | --   |                 | 296                      | 296   | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 2.6%  |      |       |      |
| PCB-77              | 0.326             | 1.304    | 5.26    | B    | <5x*B           | 5.3                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 0.546             | 2.184    |         | E    |                 | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |
| PCB-105             | 0.749             | 2.996    | 189     | --   |                 | 189                      | 189   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.6%  |      |       |      |
| PCB-114             | 0.783             | 3.132    | 11.6    | --   |                 | 11.6                     | 11.6  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |      |       |      |
| PCB-118             | 0.795             | 3.18     | 434     | --   |                 | 434                      | 434   | 0.0001         | 0.0                   | 0.0   | 2.2%                 | 3.7%  |      |       |      |
| PCB-123             | 0.904             | 3.616    | 7.83    | J    |                 | 7.8                      | 3.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 0.203             | 0.812    | 0.737   | --   |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.6%                 | 3.4%  |      |       |      |
| PCB-156             | 0.204             | 0.816    | 62.1    | --   |                 | 62.1                     | 62.1  | 0.0005         | 0.0                   | 0.0   | 1.6%                 | 2.7%  |      |       |      |
| PCB-157             | 0.211             | 0.844    | 14.4    | --   |                 | 14.4                     | 14.4  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |      |       |      |
| PCB-167             | 0.208             | 0.832    | 22.2    | --   |                 | 22.2                     | 22.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.199             | 0.796    |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-189             | 0.128             | 0.512    | 3.09    | --   |                 | 3.1                      | 3.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.0   | 0.1       | 0.0   | 2.0          | 1.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 172 PE Clean Ref-F-23

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0008            | 0.0032 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00265           | 0.0106 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00633           | 0.0253 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.115             | 0.46   |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 1.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.003             | 0.012  | 0.513   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 16.9%                | 18.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0959            | 0.3836 | 0.516   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.7%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.075             | 0.3    | 0.414   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 1.4%                 | 1.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.0918            | 0.3672 | 1.07    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 4.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.316             | 1.264  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.00078           | 0.0031 | 0.942   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 3.0%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.00083           | 0.0033 | 2.39    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 8.1%                 | 8.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.00084           | 0.0034 | 1.07    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 4.0%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0501            | 0.2004 | 9.53    | --   |                 | 9.5                      | 9.5   | 0.01           | 0.1                   | 0.1   | 3.2%                 | 3.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.878             | 3.512  |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.111             | 0.444  | 137     | --   |                 | 137                      | 137   | 0.01           | 1.4                   | 1.4   | 46.3%                | 49.7% |
| OCDF                | 0.00802           | 0.0321 | 41.1    | --   |                 | 41.1                     | 41.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0166            | 0.0664 | 1360    | CJ   |                 | 1360                     | 680   | 0.0001         | 0.1                   | 0.1   | 4.6%                 | 2.5%  |
| PCB-77              | 0.0942            | 0.3768 | 3.5     | B    | <5x*B           | 3.5                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.109             | 0.436  | 0.48    | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.189             | 0.756  | 89      | B    | <5x*B           | 89                       | 44.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.188             | 0.752  | 4.34    | --   |                 | 4.3                      | 4.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.163             | 0.652  | 198     | B    | <5x*B           | 198                      | 99    | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.4%  |
| PCB-123             | 0.183             | 0.732  | 4.89    | B    | <5x*B           | 4.9                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.107             | 0.428  | 0.908   | BJ   | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.0%                 | 1.8%  |
| PCB-156             | 0.13              | 0.52   | 32.1    | B    | <5x*B           | 32.1                     | 16.1  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 0.137             | 0.548  | 7.88    | B    | <5x*B           | 7.9                      | 3.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.126             | 0.504  | 9.12    | B    | <5x*B           | 9.1                      | 4.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0475            | 0.19   |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.217             | 0.868  | 2.24    | --   |                 | 2.2                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.8               | 2.7   | 0.1       | 0.1   | 2.9          | 2.8   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 192 | PE Clean | Ref-F-19 |
|-----------|-----|----------|----------|
|-----------|-----|----------|----------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0711            | 0.2844 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0246            | 0.0984 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.101             | 0.404  | 0.406   | B    | <5x*B           | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.1%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.0907            | 0.3628 | 0.348   | --   |                 | 0.3                      | 0.2   | 0.5            | 0.2                   | 0.1   | 8.4%                 | 9.0%  |
| 1,2,3,7,8-PeCDD     | 0.739             | 2.956  |         | E    |                 | 0.4                      |       | 1              | 0.4                   |       | 22.3%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.664             | 2.656  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 1.36              | 5.44   |         | E    |                 | 0.7                      |       | 0.1            | 0.1                   |       | 3.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.786             | 3.144  |         | ED   | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.815             | 3.26   |         | E    | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0705            | 0.282  | 0.751   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 7.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0689            | 0.2756 | 1.56    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 8.9%                 | 14.4% |
| 1,2,3,7,8,9-HxCDD   | 0.0766            | 0.3064 | 0.859   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 5.0%                 | 8.1%  |
| 1,2,3,4,6,7,8-HpCDF | 8.35              | 33.4   |         | D    | <5x*B           | 2.1                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.158             | 0.632  | 0.762   | --   |                 | 0.8                      | 0.8   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.169             | 0.676  | 36.6    | --   |                 | 36.6                     | 36.6  | 0.01           | 0.4                   | 0.4   | 20.4%                | 33.0% |
| OCDF                | 0.146             | 0.584  | 10.5    | B    | <5x*B           | 10.5                     | 5.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.357             | 1.428  | 273     | --   |                 | 273                      | 273   | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 2.5%  |
| PCB-77              | 0.297             | 1.188  | 7.31    | BI   | <5x*B           | 7.3                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.275             | 1.1    | 3.22    | BI   | <5x*B           | 3.2                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.28              | 5.12   | 340     | --   |                 | 340                      | 340   | 0.0001         | 0.0                   | 0.0   | 1.9%                 | 3.1%  |
| PCB-114             | 1.27              | 5.08   | 22.5    | --   |                 | 22.5                     | 22.5  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 1.0%  |
| PCB-118             | 1.03              | 4.12   | 786     | CJ   |                 | 786                      | 393   | 0.0001         | 0.1                   | 0.0   | 4.4%                 | 3.5%  |
| PCB-123             | 1.13              | 4.52   | 15      | --   |                 | 15                       | 15    | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 0.205             | 0.82   | 1.13    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 6.1%                 | 9.9%  |
| PCB-156             | 0.349             | 1.396  | 109     | --   |                 | 109                      | 109   | 0.0005         | 0.1                   | 0.1   | 3.0%                 | 4.9%  |
| PCB-157             | 0.35              | 1.4    | 28.2    | --   |                 | 28.2                     | 28.2  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.3%  |
| PCB-167             | 0.314             | 1.256  | 43.6    | --   |                 | 43.6                     | 43.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.23              | 0.92   |         | E    | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 8.23              | 32.92  |         | EI   | <5x*B           | 4.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 0.9   | 0.3       | 0.2   | 1.8          | 1.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 223               | PE Clean | Ref-F-2 |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0333            | 0.1332   | 0.107   | BNJ  | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0336            | 0.1344   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.135             | 0.54     | 0.149   | --   |                 | 0.1                      | 0.1   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.111             | 0.444    | 0.17    | --   |                 | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 5.7%                 | 3.1%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0465            | 0.186    | 0.615   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 33.9%                | 37.8% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.107             | 0.428    | 0.437   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 2.5%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0967            | 0.3868   | 0.855   | D    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.3%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.131             | 0.524    | 0.447   | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 0.6%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.156             | 0.624    | 0.373   | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.3%                 | 0.6%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0594            | 0.2376   | 0.733   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 4.0%                 | 4.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0528            | 0.2112   | 1.69    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 9.6%                 | 10.7% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.05              | 0.2      | 0.831   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 5.0%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 6.63              | 26.52    |         | D    | <5x*B           | 1.7                      |       | 0.01           | 0.0                   |       | 1.0%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.168             | 0.672    | 0.395   | --   |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.131             | 0.524    | 37.3    | --   |                 | 37.3                     | 37.3  | 0.01           | 0.4                   | 0.4   | 21.1%                | 23.5% |      |       |      |
| OCDF                | 0.102             | 0.408    | 8.26    | --   |                 | 8.3                      | 8.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| OCDD                | 0.0547            | 0.2188   | 284     | --   |                 | 284                      | 284   | 0.0001         | 0.0                   | 0.0   | 1.6%                 | 1.8%  |      |       |      |
| PCB-77              | 0.0459            | 0.1836   | 4.23    | B    | <5x*B           | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 0.0477            | 0.1908   | 0.375   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-105             | 0.501             | 2.004    | 120     | --   |                 | 120                      | 120   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |      |       |      |
| PCB-114             | 0.498             | 1.992    | 9.12    | --   |                 | 9.1                      | 9.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |
| PCB-118             | 0.397             | 1.588    | 267     | --   |                 | 267                      | 267   | 0.0001         | 0.0                   | 0.0   | 1.5%                 | 1.7%  |      |       |      |
| PCB-123             | 0.447             | 1.788    |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 0.107             | 0.428    | 0.778   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 5.0%  |      |       |      |
| PCB-156             | 0.284             | 1.136    | 38.4    | --   |                 | 38.4                     | 38.4  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.2%  |      |       |      |
| PCB-157             | 0.299             | 1.196    | 10.9    | --   |                 | 10.9                     | 10.9  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |
| PCB-167             | 0.276             | 1.104    | 16.7    | --   |                 | 16.7                     | 16.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.127             | 0.508    |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-189             | 0.249             | 0.996    | 2.12    | --   |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.5   | 0.1       | 0.1   | 1.6          | 1.6   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 250 PE Clean Ref-F-18

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0296            | 0.1184 | 0.108   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0212            | 0.0848 | 0.14    | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 4.9%                 | 5.6%  |
| 1,2,3,7,8-PeCDF     | 0.0581            | 0.2324 | 0.315   | B    | <5x*B           | 0.3                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.7%                 | 0.6%  |
| 2,3,4,7,8-PeCDF     | 0.0587            | 0.2348 | 0.367   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 9.9%                 | 11.3% |
| 1,2,3,7,8-PeCDD     | 0.0315            | 0.126  | 0.597   | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 29.7%                | 33.9% |
| 1,2,3,4,7,8-HxCDF   | 0.613             | 2.452  |         | --   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0347            | 0.1388 | 1.39    | D    |                 | 0.7                      |       | 0.1            | 0.1                   |       | 3.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0403            | 0.1612 | 0.596   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0541            | 0.2164 | 0.504   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0345            | 0.138  | 0.879   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 5.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0292            | 0.1168 | 1.58    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 7.9%                 | 9.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0347            | 0.1388 | 1.01    | J    |                 | 1                        | 0.5   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 9.63              | 38.52  |         | D    | <5x*B           | 2.4                      |       | 0.01           | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0463            | 0.1852 | 0.519   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0418            | 0.1672 | 35.7    | --   |                 | 35.7                     | 35.7  | 0.01           | 0.4                   | 0.4   | 17.7%                | 20.2% |
| OCDF                | 0.114             | 0.456  | 7.1     | B    | <5x*B           | 7.1                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.113             | 0.452  | 262     | --   |                 | 262                      | 262   | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.5%  |
| PCB-77              | 0.0662            | 0.2648 | 4.68    | B    | <5x*B           | 4.7                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0603            | 0.2412 | 0.414   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.35              | 1.4    | 57.7    | B    | <5x*B           | 57.7                     | 28.9  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 0.356             | 1.424  | 2.75    | B    | <5x*B           | 2.8                      | 1.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-118             | 0.284             | 1.136  | 121     | B    | <5x*B           | 121                      | 60.5  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.3%  |
| PCB-123             | 0.331             | 1.324  | 1.8     | B    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.159             | 0.636  | 0.903   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.5%                 | 5.1%  |
| PCB-156             | 0.0661            | 0.2644 | 18.9    | I    |                 | 18.9                     | 18.9  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-157             | 0.0688            | 0.2752 | 4.84    | BI   | <5x*B           | 4.8                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.0632            | 0.2528 | 7.89    | IJ   |                 | 7.9                      | 3.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.035             | 0.14   | 0.211   | B    | <5x*B           | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.0262            | 0.1048 | 1.52    | B    | <5x*B           | 1.5                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.7   | 0.1       | 0.1   | 2.1          | 1.8   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 256 | PE Clean | Ref-F-24 |
|-----------|-----|----------|----------|
|-----------|-----|----------|----------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0108            | 0.0432 | 0.129   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.00188           | 0.0075 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.179             | 0.716  |         | ED   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.209             | 0.836  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 4.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0421            | 0.1684 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.042             | 0.168  | 0.513   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 4.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.387             | 1.548  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0434            | 0.1736 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0481            | 0.1924 | 0.369   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 3.4%                 | 3.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.0109            | 0.0436 | 0.999   | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 8.6%                 | 9.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.00824           | 0.033  | 1.67    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 14.6%                | 16.7% |
| 1,2,3,7,8,9-HxCDD   | 0.00965           | 0.0386 | 1.18    | J    |                 | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 10.3%                | 5.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0259            | 0.1036 | 5.76    | --   |                 | 5.8                      | 5.8   | 0.01           | 0.1                   | 0.1   | 5.0%                 | 5.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0384            | 0.1536 | 0.51    | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0376            | 0.1504 | 38.3    | --   |                 | 38.3                     | 38.3  | 0.01           | 0.4                   | 0.4   | 33.0%                | 37.6% |
| OCDF                | 0.0137            | 0.0548 | 8.95    | --   |                 | 9                        | 9     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0154            | 0.0616 | 291     | --   |                 | 291                      | 291   | 0.0001         | 0.0                   | 0.0   | 2.5%                 | 2.9%  |
| PCB-77              | 0.0433            | 0.1732 | 4.24    | B    | <5x*B           | 4.2                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0532            | 0.2128 | 0.499   | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.298             | 1.192  | 77.5    | --   |                 | 77.5                     | 77.5  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-114             | 0.311             | 1.244  | 4.35    | B    | <5x*B           | 4.4                      | 2.2   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 0.328             | 1.312  | 163     | --   |                 | 163                      | 163   | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.6%  |
| PCB-123             | 0.373             | 1.492  | 3.7     | BJ   | <5x*B           | 3.7                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0986            | 0.3944 | 0.837   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 6.9%                 | 7.8%  |
| PCB-156             | 0.151             | 0.604  | 25.4    | --   |                 | 25.4                     | 25.4  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.2%  |
| PCB-157             | 0.156             | 0.624  | 6.78    | --   |                 | 6.8                      | 6.8   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.154             | 0.616  | 10.9    | --   |                 | 10.9                     | 10.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0411            | 0.1644 | 0.172   | --   |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.227             | 0.908  | 1.88    | --   |                 | 1.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 1.0   | 0.1       | 0.1   | 1.2          | 1.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 303               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0419            | 0.1676   | 0.0701  | NJ   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0858            | 0.3432   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0795            | 0.318    | 0.128   | B    | <5x*B           | 0.1                      | 0     | 0.05           | 0.0                   | 0.0   | 0.2%                 | 0.0%  |
| 2,3,4,7,8-PeCDF     | 0.0619            | 0.2476   | 0.171   | B    | <5x*B           | 0.2                      | 0     | 0.5            | 0.1                   | 0.0   | 5.0%                 | 0.0%  |
| 1,2,3,7,8-PeCDD     | 0.0404            | 0.1616   | 0.483   | B    | <5x*B           | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 24.9%                | 15.6% |
| 1,2,3,4,7,8-HxCDF   | 0.0883            | 0.3532   | 0.473   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 2.5%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0759            | 0.3036   | 0.618   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.0%                 | 2.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0971            | 0.3884   | 0.501   | B    | <5x*B           | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.13              | 0.52     | 0.383   | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.0%                 | 0.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0877            | 0.3508   | 0.838   | J    |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.0%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0732            | 0.2928   | 1.4     | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 7.0%                 | 10.9% |
| 1,2,3,7,8,9-HxCDD   | 0.0709            | 0.2836   | 0.894   | J    |                 | 0.9                      | 0.4   | 0.1            | 0.1                   | 0.0   | 4.5%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0829            | 0.3316   | 4.71    | --   |                 | 4.7                      | 4.7   | 0.01           | 0.0                   | 0.0   | 2.3%                 | 3.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.142             | 0.568    | 0.381   | --   |                 | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.194             | 0.776    | 34.5    | --   |                 | 34.5                     | 34.5  | 0.01           | 0.3                   | 0.3   | 17.2%                | 26.8% |
| OCDF                | 0.0568            | 0.2272   | 7.66    | --   |                 | 7.7                      | 7.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0606            | 0.2424   | 259     | --   |                 | 259                      | 259   | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 2.0%  |
| PCB-77              | 0.124             | 0.496    | 7.63    | B    | <5x*B           | 7.6                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.487             | 1.948    |         | E    | <5x*B           | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.27              | 5.08     | 606     | --   |                 | 606                      | 606   | 0.0001         | 0.1                   | 0.1   | 3.0%                 | 4.7%  |
| PCB-114             | 1.33              | 5.32     | 32      | --   |                 | 32                       | 32    | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |
| PCB-118             | 1.41              | 5.64     | 1350    | CJ   |                 | 1350                     | 675   | 0.0001         | 0.1                   | 0.1   | 6.7%                 | 5.3%  |
| PCB-123             | 1.6               | 6.4      | 21.3    | --   |                 | 21.3                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-126             | 0.185             | 0.74     | 1.62    | B    | <5x*B           | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 8.0%                 | 6.2%  |
| PCB-156             | 0.18              | 0.72     | 156     | --   |                 | 156                      | 156   | 0.0005         | 0.1                   | 0.1   | 3.9%                 | 6.1%  |
| PCB-157             | 0.186             | 0.744    | 36.3    | --   |                 | 36.3                     | 36.3  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.4%  |
| PCB-167             | 0.183             | 0.732    | 52.2    | --   |                 | 52.2                     | 52.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.164             | 0.656    | 0.214   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.0834            | 0.3336   | 4.95    | --   |                 | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 0.7   | 0.5       | 0.4   | 2.0          | 1.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 323               | PE Clean | Ref-F-5 |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.173             | 0.692    |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0893            | 0.3572   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0987            | 0.3948   | 0.631   | --   |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 1.4%                 | 2.1%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0955            | 0.382    | 0.334   | J    |                 | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 7.2%                 | 3.6%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0785            | 0.314    | 0.682   | J    |                 | 0.7                      | 0.3   | 1              | 0.7                   | 0.3   | 33.8%                | 21.4% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.178             | 0.712    | 0.72    | B    | <5x*B           | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.4%                 | 2.9%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.638             | 2.552    |         | D    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.165             | 0.66     | 0.944   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 3.6%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.204             | 0.816    | 0.945   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.4%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.168             | 0.672    | 0.945   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.142             | 0.568    | 1.71    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 8.2%                 | 12.1% |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.143             | 0.572    | 1.27    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 6.3%                 | 9.3%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 5.92              | 23.7     |         | D    |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.184             | 0.736    | 0.96    | B    | <5x*B           | 1                        | 0.5   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.184             | 0.736    | 38.7    | --   |                 | 38.7                     | 38.7  | 0.01           | 0.4                   | 0.4   | 18.7%                | 27.6% |      |       |      |
| OCDF                | 0.178             | 0.712    | 7.64    | B    | <5x*B           | 7.6                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.0871            | 0.3484   | 344     | --   |                 | 344                      | 344   | 0.0001         | 0.0                   | 0.0   | 1.7%                 | 2.5%  |      |       |      |
| PCB-77              | 0.678             | 2.712    | 3.29    | B    | <5x*B           | 3.3                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 0.167             | 0.668    | 0.562   | B    | <5x*B           | 0.6                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-105             | 0.932             | 3.728    | 60.2    | --   |                 | 60.2                     | 60.2  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |
| PCB-114             | 0.91              | 3.64     | 2.99    | --   |                 | 3                        | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-118             | 0.755             | 3.02     | 132     | BJ   | <5x*B           | 132                      | 66    | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |      |       |      |
| PCB-123             | 0.801             | 3.204    |         | --   |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 0.784             | 3.136    |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |      |       |      |
| PCB-156             | 0.317             | 1.268    | 20      | --   |                 | 20                       | 20    | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |      |       |      |
| PCB-157             | 0.315             | 1.26     | 5.08    | --   |                 | 5.1                      | 5.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |
| PCB-167             | 0.321             | 1.284    | 8.85    | --   |                 | 8.9                      | 8.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.23              | 0.92     | 0.151   | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.437             | 1.748    | 2.12    | --   |                 | 2.1                      | 2.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.0               | 1.4   | 0.0       | 0.0   | 2.0          | 1.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 336               | PE Clean | blank   |       |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0339            | 0.1356   | --      |       |                 | 0                        |       | 0.1            | 0.0                   |       |                      | 0.0%  |      |       |      |
| 2,3,7,8-TCDD        | 0.0193            | 0.0772   | --      |       |                 | 0                        |       | 1              | 0.0                   |       |                      | 0.0%  |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0307            | 0.1228   | 0.304   | --    |                 | 0.3                      | 0.3   | 0.05           | 0.0                   | 0.0   |                      | 0.7%  |      | 0.7%  |      |
| 2,3,4,7,8-PeCDF     | 0.027             | 0.108    | 0.297   | --    |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   |                      | 7.0%  |      | 7.4%  |      |
| 1,2,3,7,8-PeCDD     | 0.0275            | 0.11     | 0.659   | --    |                 | 0.7                      | 0.7   | 1              | 0.7                   | 0.7   |                      | 32.7% |      | 34.5% |      |
| 1,2,3,4,7,8-HxCDF   | 0.0256            | 0.1024   | 0.563   | B     | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   |                      | 2.8%  |      | 1.5%  |      |
| 1,2,3,6,7,8-HxCDF   | 0.0226            | 0.0904   | 0.452   | --    |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   |                      | 2.3%  |      | 2.5%  |      |
| 2,3,4,6,7,8-HxCDF   | 1.73              | 6.92     | D       | <5x*B |                 | 0.4                      |       | 0.1            | 0.0                   |       |                      | 1.9%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0309            | 0.1236   | 0.433   | B     | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   |                      | 1.9%  |      | 1.0%  |      |
| 1,2,3,4,7,8-HxCDD   | 0.0299            | 0.1196   | 0.884   | --    |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   |                      | 4.2%  |      | 4.4%  |      |
| 1,2,3,6,7,8-HxCDD   | 0.0284            | 0.1136   | 1.75    | --    |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   |                      | 8.4%  |      | 8.9%  |      |
| 1,2,3,7,8,9-HxCDD   | 0.0293            | 0.1172   | 1.19    | --    |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   |                      | 5.6%  |      | 5.9%  |      |
| 1,2,3,4,6,7,8-HpCDF | 5.42              | 21.68    | D       |       |                 | 1.4                      |       | 0.01           | 0.0                   |       |                      | 0.7%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0375            | 0.15     | 0.58    | --    |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   |                      | 0.3%  |      | 0.3%  |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0236            | 0.0944   | 36.4    | --    |                 | 36.4                     | 36.4  | 0.01           | 0.4                   | 0.4   |                      | 17.0% |      | 17.9% |      |
| OCDF                | 0.0307            | 0.1228   | 6.16    | J     |                 | 6.2                      | 3.1   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| OCDD                | 0.0465            | 0.186    | 290     | --    |                 | 290                      | 290   | 0.0001         | 0.0                   | 0.0   |                      | 1.4%  |      | 1.4%  |      |
| PCB-77              | 0.0406            | 0.1624   | 6.04    | B     | <5x*B           | 6                        | 3     | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-81              | 0.0526            | 0.2104   | 0.744   | B     | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-105             | 0.55              | 2.2      | 252     | --    |                 | 252                      | 252   | 0.0001         | 0.0                   | 0.0   |                      | 1.2%  |      | 1.2%  |      |
| PCB-114             | 0.575             | 2.3      | 12.8    | --    |                 | 12.8                     | 12.8  | 0.0005         | 0.0                   | 0.0   |                      | 0.3%  |      | 0.3%  |      |
| PCB-118             | 0.669             | 2.676    | 559     | --    |                 | 559                      | 559   | 0.0001         | 0.1                   | 0.1   |                      | 2.6%  |      | 2.8%  |      |
| PCB-123             | 0.761             | 3.044    | 8.98    | --    |                 | 9                        | 9     | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-126             | 0.264             | 1.056    | 1.39    | --    |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   |                      | 6.5%  |      | 6.9%  |      |
| PCB-156             | 0.255             | 1.02     | 73      | --    |                 | 73                       | 73    | 0.0005         | 0.0                   | 0.0   |                      | 1.7%  |      | 1.8%  |      |
| PCB-157             | 0.264             | 1.056    | 17.2    | --    |                 | 17.2                     | 17.2  | 0.0005         | 0.0                   | 0.0   |                      | 0.4%  |      | 0.4%  |      |
| PCB-167             | 0.26              | 1.04     | 27      | J     |                 | 27                       | 13.5  | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-169             | 0.0822            | 0.3288   | 0.566   | B     | <5x*B           | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   |                      | 0.3%  |      | 0.1%  |      |
| PCB-189             | 0.0913            | 0.3652   | 3.18    | --    |                 | 3.2                      | 3.2   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.9               | 1.8   | 0.2       | 0.2   | 2.1          | 2.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 339 PE Clean Ref-F-27

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0504            | 0.2016 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0161            | 0.0644 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.322             | 1.288  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.5%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0359            | 0.1436 | 0.273   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 7.3%                 | 8.4%  |
| 1,2,3,7,8-PeCDD     | 0.0443            | 0.1772 | 0.767   | --   |                 | 0.8                      | 0.8   | 1              | 0.8                   | 0.8   | 38.7%                | 45.0% |
| 1,2,3,4,7,8-HxCDF   | 0.111             | 0.444  | 0.627   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0925            | 0.37   | 0.559   | I    |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.9%                 | 3.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.144             | 0.576  | 0.56    | B    | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 0.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.212             | 0.848  | 0.568   | B    | <5x*B           | 0.6                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.9%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.749             | 2.996  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0416            | 0.1664 | 1.66    | I    |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 8.2%                 | 9.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.0469            | 0.1876 | 0.788   | IJ   |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 3.9%                 | 2.2%  |
| 1,2,3,4,6,7,8-HpCDF | 5.91              | 23.64  |         | D    |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0783            | 0.3132 | 0.579   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.126             | 0.504  | 36.7    | --   |                 | 36.7                     | 36.7  | 0.01           | 0.4                   | 0.4   | 17.8%                | 20.6% |
| OCDF                | 0.0259            | 0.1036 | 7.13    | J    |                 | 7.1                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0841            | 0.3364 | 296     | --   |                 | 296                      | 296   | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.7%  |
| PCB-77              | 0.0839            | 0.3356 | 9.03    | B    | <5x*B           | 9                        | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0815            | 0.326  | 0.676   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.444             | 1.776  | 85.8    | B    | <5x*B           | 85.8                     | 42.9  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| PCB-114             | 0.464             | 1.856  | 5.07    | --   |                 | 5.1                      | 5.1   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.497             | 1.988  | 187     | B    | <5x*B           | 187                      | 93.5  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.5%  |
| PCB-123             | 0.565             | 2.26   |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.175             | 0.7    | 1.08    | BJ   | <5x*B           | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.3%                 | 2.8%  |
| PCB-156             | 1.22              | 4.88   | 21.3    | B    | <5x*B           | 21.3                     | 10.7  | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-157             | 1.26              | 5.04   | 5.59    | --   |                 | 5.6                      | 5.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-167             | 1.24              | 4.96   | 12.7    | --   |                 | 12.7                     | 12.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0796            | 0.3184 | 0.226   | J    |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.881             | 3.524  | 1.88    | --   |                 | 1.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.1               | 1.8   | 0.1       | 0.1   | 2.2          | 1.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 392 PE Clean Ref-F-28

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00644           | 0.0258 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00255           | 0.0102 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00222           | 0.0089 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00178           | 0.0071 | 0.167   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 8.3%                 | 11.0% |
| 1,2,3,7,8-PeCDD     | 0.489             | 1.956  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 16.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0167            | 0.0668 | 0.404   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.3%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0143            | 0.0572 | 0.341   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0165            | 0.066  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0197            | 0.0788 | 0.335   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 2.5%                 | 3.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.00247           | 0.0099 | 0.823   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 6.7%                 | 8.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.00204           | 0.0082 | 1.66    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 14.1%                | 18.7% |
| 1,2,3,7,8,9-HxCDD   | 1.18              | 4.72   |         | EJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 5.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0203            | 0.0812 | 5.09    | --   |                 | 5.1                      | 5.1   | 0.01           | 0.1                   | 0.1   | 4.2%                 | 5.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.031             | 0.124  | 0.394   | --   |                 | 0.4                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.00203           | 0.0081 | 31      | --   |                 | 31                       | 31    | 0.01           | 0.3                   | 0.3   | 25.8%                | 34.1% |
| OCDF                | 0.0125            | 0.05   | 6.8     | J    |                 | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| OCDD                | 0.0239            | 0.0956 | 250     | --   |                 | 250                      | 250   | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 2.7%  |
| PCB-77              | 0.0127            | 0.0508 | 3.82    | B    | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0137            | 0.0548 | 0.355   | --   |                 | 0.4                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.291             | 1.164  | 52.3    | B    | <5x*B           | 52.3                     | 26.2  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 0.305             | 1.22   | 2.57    | B    | <5x*B           | 2.6                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.294             | 1.176  | 110     | B    | <5x*B           | 110                      | 55    | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.6%  |
| PCB-123             | 0.334             | 1.336  | 1.99    | --   |                 | 2                        | 2     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0587            | 0.2348 | 0.735   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 5.8%                 | 7.7%  |
| PCB-156             | 0.115             | 0.46   | 18.9    | --   |                 | 18.9                     | 18.9  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| PCB-157             | 0.118             | 0.472  | 5.1     | B    | <5x*B           | 5.1                      | 2.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-167             | 0.117             | 0.468  | 7.86    | B    | <5x*B           | 7.9                      | 3.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.163             | 0.652  |         | E    | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.0606            | 0.2424 | 1.58    | B    | <5x*B           | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.8   | 0.1       | 0.1   | 1.2          | 0.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 445               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0514            | 0.2056   |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       |                      | 0.0%  |      |       |      |
| 2,3,7,8-TCDD        | 0.0105            | 0.042    |         | --   |                 | 0                        |       | 1              | 0.0                   |       |                      | 0.0%  |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0758            | 0.3032   |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       |                      | 0.0%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.27              | 1.08     |         | EI   |                 | 0.1                      |       | 0.5            | 0.1                   |       |                      | 2.1%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.88              | 3.52     |         | E    |                 | 0.4                      |       | 1              | 0.4                   |       |                      | 16.6% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.0334            | 0.1336   | 0.702   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   |                      | 2.9%  |      | 4.1%  |      |
| 1,2,3,6,7,8-HxCDF   | 0.0289            | 0.1156   | 0.549   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   |                      | 2.1%  |      | 2.9%  |      |
| 2,3,4,6,7,8-HxCDF   | 0.0469            | 0.1876   | 0.602   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   |                      | 2.5%  |      | 3.5%  |      |
| 1,2,3,7,8,9-HxCDF   | 0.0518            | 0.2072   | 0.572   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   |                      | 2.5%  |      | 1.8%  |      |
| 1,2,3,4,7,8-HxCDD   | 0.0296            | 0.1184   | 0.924   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   |                      | 3.7%  |      | 2.9%  |      |
| 1,2,3,6,7,8-HxCDD   | 0.0261            | 0.1044   | 2.25    | --   |                 | 2.3                      | 2.3   | 0.1            | 0.2                   | 0.2   |                      | 9.6%  |      | 13.5% |      |
| 1,2,3,7,8,9-HxCDD   | 0.0288            | 0.1152   | 1.25    | J    |                 | 1.3                      | 0.6   | 0.1            | 0.1                   | 0.1   |                      | 5.4%  |      | 3.5%  |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0466            | 0.1864   | 7.87    | I    |                 | 7.9                      | 7.9   | 0.01           | 0.1                   | 0.1   |                      | 3.3%  |      | 4.6%  |      |
| 1,2,3,4,7,8,9-HpCDF | 0.0579            | 0.2316   | 0.572   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   |                      | 0.2%  |      | 0.4%  |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0329            | 0.1316   | 99.3    | I    |                 | 99.3                     | 99.3  | 0.01           | 1.0                   | 1.0   |                      | 41.3% |      | 58.2% |      |
| OCDF                | 0.0208            | 0.0832   | 13.1    | J    |                 | 13.1                     | 6.6   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.0%  |      |
| OCDD                | 0.0307            | 0.1228   | 1020    | CJ   |                 | 1020                     | 510   | 0.0001         | 0.1                   | 0.1   |                      | 4.2%  |      | 3.0%  |      |
| PCB-77              | 0.0426            | 0.1704   | 5.97    | B    | <5x*B           | 6                        | 3     | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-81              | 0.64              | 2.56     |         | E    | <5x*B           | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |
| PCB-105             | 0.279             | 1.116    | 57.7    | --   | <5x*B           | 57.7                     | 57.7  | 0.0001         | 0.0                   | 0.0   |                      | 0.2%  |      | 0.3%  |      |
| PCB-114             | 0.292             | 1.168    | 2.89    | JB   | <5x*B           | 2.9                      | 1.4   | 0.0005         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.0%  |      |
| PCB-118             | 0.333             | 1.332    | 121     | B    | <5x*B           | 121                      | 60.5  | 0.0001         | 0.0                   | 0.0   |                      | 0.5%  |      | 0.4%  |      |
| PCB-123             | 0.378             | 1.512    | 2.05    | B    | <5x*B           | 2.1                      | 1     | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-126             | 1.07              | 4.28     |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       |                      | 2.1%  |      |       |      |
| PCB-156             | 0.112             | 0.448    | 20.2    | --   |                 | 20.2                     | 20.2  | 0.0005         | 0.0                   | 0.0   |                      | 0.4%  |      | 0.6%  |      |
| PCB-157             | 0.116             | 0.464    | 5.6     | --   |                 | 5.6                      | 5.6   | 0.0005         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.2%  |      |
| PCB-167             | 0.114             | 0.456    | 9.27    | J    |                 | 9.3                      | 4.6   | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |
| PCB-169             | 0.0401            | 0.1604   |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       |                      | 0.0%  |      |       |      |
| PCB-189             | 0.069             | 0.276    | 1.39    | --   |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.5               | 1.9   | 0.1       | 0.0   | 2.6          | 1.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 467 | PE Clean | blank? |
|-----------|-----|----------|--------|
|-----------|-----|----------|--------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.029             | 0.116  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0167            | 0.0668 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.2               | 0.8    |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.192             | 0.768  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.554             | 2.216  |         | E    | <5x*B           | 0.3                      |       | 1              | 0.3                   |       | 18.4%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0258            | 0.1032 | 0.465   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.1%                 | 4.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0226            | 0.0904 | 0.412   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.4%                 | 1.6%  |
| 2,3,4,6,7,8-HxCDF   | 0.0263            | 0.1052 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.398             | 1.592  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.023             | 0.092  | 1.51    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 9.2%                 | 12.1% |
| 1,2,3,6,7,8-HxCDD   | 0.0282            | 0.1128 | 1.84    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 11.0%                | 14.5% |
| 1,2,3,7,8,9-HxCDD   | 0.0259            | 0.1036 | 1.13    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 6.7%                 | 8.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0326            | 0.1304 | 6.54    | --   |                 | 6.5                      | 6.5   | 0.01           | 0.1                   | 0.1   | 4.0%                 | 5.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0415            | 0.166  | 0.541   | --   |                 | 0.5                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0355            | 0.142  | 46.4    | --   |                 | 46.4                     | 46.4  | 0.01           | 0.5                   | 0.5   | 28.4%                | 37.5% |
| OCDF                | 0.0233            | 0.0932 | 12.2    | --   |                 | 12.2                     | 12.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0411            | 0.1644 | 474     | --   |                 | 474                      | 474   | 0.0001         | 0.0                   | 0.0   | 2.9%                 | 3.8%  |
| PCB-77              | 0.035             | 0.14   | 4.67    | B    | <5x*B           | 4.7                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0384            | 0.1536 | 0.408   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.32              | 1.28   | 78      | --   |                 | 78                       | 78    | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.334             | 1.336  | 4.05    | B    | <5x*B           | 4.1                      | 2     | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.344             | 1.376  | 171     | --   |                 | 171                      | 171   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.4%  |
| PCB-123             | 0.391             | 1.564  | 3.42    | J    |                 | 3.4                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.096             | 0.384  | 1       | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 6.1%                 | 8.1%  |
| PCB-156             | 0.952             | 3.808  | 24.8    | --   |                 | 24.8                     | 24.8  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.0%  |
| PCB-157             | 0.984             | 3.936  | 6.63    | --   |                 | 6.6                      | 6.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.968             | 3.872  | 11      | --   |                 | 11                       | 11    | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0364            | 0.1456 | 0.252   | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.0901            | 0.3604 | 1.6     | --   |                 | 1.6                      | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.6               | 1.2   | 0.1       | 0.1   | 1.7          | 1.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 681               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0216            | 0.0864   | 0.194   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 2,3,7,8-TCDD        | 0.00469           | 0.0188   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0726            | 0.2904   | 0.411   | --   |                 | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| 2,3,4,7,8-PeCDF     | 0.0458            | 0.1832   | 0.368   | --   |                 | 0.4                      | 0.4   | 0.5            | 0.2                   | 0.2   | 7.8%                 | 8.5%  |
| 1,2,3,7,8-PeCDD     | 0.0173            | 0.0692   | 0.845   | --   |                 | 0.8                      | 0.8   | 1              | 0.8                   | 0.8   | 31.2%                | 34.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0282            | 0.1128   | 0.711   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 2.7%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0355            | 0.142    | 0.497   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.9%                 | 2.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0387            | 0.1548   | 0.585   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.3%                 | 1.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0526            | 0.2104   | 0.611   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.3%                 | 1.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.00953           | 0.0381   | 0.989   | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 3.9%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.00837           | 0.0335   | 2.03    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 7.8%                 | 8.5%  |
| 1,2,3,7,8,9-HxCDD   | 1.24              | 4.96     |         | EJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 2.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0329            | 0.1316   | 5.7     | I    |                 | 5.7                      | 5.7   | 0.01           | 0.1                   | 0.1   | 2.2%                 | 2.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0472            | 0.1888   | 0.576   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0335            | 0.134    | 57.8    | --   |                 | 57.8                     | 57.8  | 0.01           | 0.6                   | 0.6   | 22.5%                | 24.6% |
| OCDF                | 0.0154            | 0.0616   | 8.8     | --   |                 | 8.8                      | 8.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0217            | 0.0868   | 638     | --   |                 | 638                      | 638   | 0.0001         | 0.1                   | 0.1   | 2.5%                 | 2.7%  |
| PCB-77              | 0.0498            | 0.1992   | 10.3    | B    | <5x*B           | 10.3                     | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0495            | 0.198    | 1.03    | BJ   | <5x*B           | 1                        | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.56              | 10.24    | 139     | --   |                 | 139                      | 139   | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 2.67              | 10.68    | 7.61    | --   |                 | 7.6                      | 3.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 3.06              | 12.24    | 308     | --   |                 | 308                      | 308   | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.3%  |
| PCB-123             | 3.48              | 13.92    | 7.52    | --   |                 | 7.5                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.143             | 0.572    | 1.48    | BJ   | <5x*B           | 1.5                      | 0.7   | 0.1            | 0.2                   | 0.1   | 5.8%                 | 3.0%  |
| PCB-156             | 0.323             | 1.292    | 43.3    | --   |                 | 43.3                     | 43.3  | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| PCB-157             | 0.334             | 1.336    | 11      | --   |                 | 11                       | 11    | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.329             | 1.316    | 17.3    | --   |                 | 17.3                     | 17.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.481             | 1.924    |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.243             | 0.972    | 2.91    | --   |                 | 2.9                      | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 2.6               | 2.3   | 0.2       | 0.1   | 2.8          | 2.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 748 PE Clean Ref-F-25

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0489            | 0.1956 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0308            | 0.1232 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0219            | 0.0876 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0172            | 0.0688 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.682             | 2.728  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 23.2%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0828            | 0.3312 | 0.541   | I    |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 3.9%                 | 5.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0811            | 0.3244 | 0.411   | BI   | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 2.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.124             | 0.496  | 0.59    | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 4.6%                 | 7.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.243             | 0.972  |         | --   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8-HxCDD   | 1.07              | 4.28   |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 3.9%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0507            | 0.2028 | 1.49    | I    |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 11.6%                | 17.6% |
| 1,2,3,7,8,9-HxCDD   | 0.805             | 3.22   |         | EI   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.1%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0802            | 0.3208 | 4.96    | I    |                 | 5                        | 5     | 0.01           | 0.1                   | 0.1   | 3.9%                 | 5.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.531             | 2.124  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0768            | 0.3072 | 38      | --   |                 | 38                       | 38    | 0.01           | 0.4                   | 0.4   | 29.4%                | 44.5% |
| OCDF                | 0.0652            | 0.2608 | 9.8     | --   |                 | 9.8                      | 9.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.133             | 0.532  | 309     | --   |                 | 309                      | 309   | 0.0001         | 0.0                   | 0.0   | 2.4%                 | 3.6%  |
| PCB-77              | 0.0323            | 0.1292 | 3.47    | B    | <5x*B           | 3.5                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.041             | 0.164  | 0.469   | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.326             | 1.304  | 67.5    | B    | <5x*B           | 67.5                     | 33.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.324             | 1.296  | 3.36    | B    | <5x*B           | 3.4                      | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.274             | 1.096  | 141     | B    | <5x*B           | 141                      | 70.5  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.8%  |
| PCB-123             | 0.308             | 1.232  | 3.36    | BJ   | <5x*B           | 3.4                      | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.173             | 0.692  | 0.874   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 7.0%                 | 10.5% |
| PCB-156             | 0.148             | 0.592  | 24.5    | B    | <5x*B           | 24.5                     | 12.3  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-157             | 0.156             | 0.624  | 6.71    | --   |                 | 6.7                      | 6.7   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-167             | 0.144             | 0.576  | 9.9     | B    | <5x*B           | 9.9                      | 5     | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0736            | 0.2944 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.1               | 0.4    | 1.94    | --   |                 | 1.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.3               | 0.9   | 0.1       | 0.1   | 1.4          | 1.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 779 | PE Clean | Ref-F-16 |
|-----------|-----|----------|----------|
|-----------|-----|----------|----------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0372            | 0.1488 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.014             | 0.056  |         | J    |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0514            | 0.2056 |         | J    |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0451            | 0.1804 |         | J    |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.106             | 0.424  | 0.502   | J    |                 | 0.5                      | 0.3   | 1              | 0.5                   | 0.3   | 25.1%                | 31.7% |
| 1,2,3,4,7,8-HxCDF   | 0.764             | 3.056  |         | EJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 1.37              | 5.48   |         | EDJ  |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.122             | 0.488  | 0.472   | BJ   | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   | 2.5%                 | 1.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.487             | 1.948  |         | EJ   | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 1.0%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0672            | 0.2688 | 1.03    | J    |                 | 1                        | 0.5   | 0.1            | 0.1                   | 0.1   | 5.0%                 | 5.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0574            | 0.2296 | 2       | J    |                 | 2                        | 1     | 0.1            | 0.2                   | 0.1   | 10.0%                | 10.6% |
| 1,2,3,7,8,9-HxCDD   | 0.0561            | 0.2244 | 1.38    | J    |                 | 1.4                      | 0.7   | 0.1            | 0.1                   | 0.1   | 7.0%                 | 7.4%  |
| 1,2,3,4,6,7,8-HpCDF | 11.4              | 45.6   |         | DJ   |                 | 2.9                      |       | 0.01           | 0.0                   |       | 1.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.165             | 0.66   | 0.529   | BJ   | <5x*B           | 0.5                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.219             | 0.876  | 66.4    | J    |                 | 66.4                     | 33.2  | 0.01           | 0.7                   | 0.3   | 33.3%                | 35.1% |
| OCDF                | 0.0859            | 0.3436 | 9.86    | BJ   | <5x*B           | 9.9                      | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.808             | 3.232  | 770     | J    |                 | 770                      | 385   | 0.0001         | 0.1                   | 0.0   | 3.9%                 | 4.1%  |
| PCB-77              | 1.94              | 7.76   | 5.99    | B    | <5x*B           | 6                        | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.53              | 6.12   |         | J    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.05              | 4.2    | 116     | J    |                 | 116                      | 58    | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.6%  |
| PCB-114             | 1.03              | 4.12   | 6.06    | B    | <5x*B           | 6.1                      | 3     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 0.897             | 3.588  | 256     | BJ   | <5x*B           | 256                      | 128   | 0.0001         | 0.0                   | 0.0   | 1.3%                 | 1.4%  |
| PCB-123             | 0.982             | 3.928  | 5.63    | --   |                 | 5.6                      | 5.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 1.32              | 5.28   |         | I    |                 | 0.7                      |       | 0.1            | 0.1                   |       | 3.5%                 |       |
| PCB-156             | 0.308             | 1.232  | 36.3    | --   |                 | 36.3                     | 36.3  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.9%  |
| PCB-157             | 0.32              | 1.28   | 9.35    | --   |                 | 9.4                      | 9.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-167             | 0.283             | 1.132  | 14.5    | J    |                 | 14.5                     | 7.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.286             | 1.144  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.205             | 0.82   | 2.44    | BJ   | <5x*B           | 2.4                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 0.9   | 0.1       | 0.0   | 1.9          | 0.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 884               | PE Clean | blank   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |          | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL       | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0351            | 0.1404   |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       |                      | 0.0%  |      |       |      |
| 2,3,7,8-TCDD        | 0.0309            | 0.1236   |         | --   |                 | 0                        |       | 1              | 0.0                   |       |                      | 0.0%  |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0497            | 0.1988   | 0.192   | B    | <5x*B           | 0.2                      | 0     | 0.05           | 0.0                   | 0.0   |                      | 0.8%  |      | 0.0%  |      |
| 2,3,4,7,8-PeCDF     | 0.0427            | 0.1708   | 0.172   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 7.6%                 | 11.4% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.487             | 1.948    |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       |                      | 15.2% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.544             | 2.176    |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       |                      | 2.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.0709            | 0.2836   | 1.5     | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 11.4%                | 17.1% |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.143             | 0.572    | 0.684   | B    | <5x*B           | 0.7                      | 0.3   | 0.1            | 0.1                   | 0.0   | 5.3%                 | 3.4%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.22              | 0.88     | 0.442   | B    | <5x*B           | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 1.1%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0564            | 0.2256   | 0.813   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 6.1%                 | 9.1%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0503            | 0.2012   | 1.43    | D    |                 | 0.7                      |       | 0.1            | 0.1                   |       |                      | 5.3%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0582            | 0.2328   | 0.742   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 5.3%                 | 8.0%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 10.9              | 43.6     |         | D    | <5x*B           | 2.7                      |       | 0.01           | 0.0                   |       |                      | 2.0%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.408             | 1.632    |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       |                      | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.116             | 0.464    | 34.2    | --   |                 | 34.2                     | 34.2  | 0.01           | 0.3                   | 0.3   | 25.9%                | 38.9% |      |       |      |
| OCDF                | 0.308             | 1.232    | 7.35    | BI   | <5x*B           | 7.4                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| OCDD                | 0.574             | 2.296    | 279     | I    |                 | 279                      | 279   | 0.0001         | 0.0                   | 0.0   | 2.1%                 | 3.2%  |      |       |      |
| PCB-77              | 1.17              | 4.68     | 3.81    | BI   | <5x*B           | 3.8                      | 1     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 1                 | 4        |         | I    | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |
| PCB-105             | 2.77              | 11.08    | 66.4    | --   |                 | 66.4                     | 66.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.8%  |      |       |      |
| PCB-114             | 2.76              | 11.04    |         | --   | <5x*B           | 1.4                      |       | 0.0005         | 0.0                   |       |                      | 0.1%  |      |       |      |
| PCB-118             | 2.33              | 9.32     | 150     | --   |                 | 150                      | 150   | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.7%  |      |       |      |
| PCB-123             | 2.56              | 10.24    | 3.89    | --   |                 | 3.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 0.197             | 0.788    | 0.61    | --   |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 4.5%                 | 3.4%  |      |       |      |
| PCB-156             | 1.62              | 6.48     | 26.3    | --   |                 | 26.3                     | 26.3  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.5%  |      |       |      |
| PCB-157             | 1.62              | 6.48     | 7.78    | --   |                 | 7.8                      | 7.8   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.4%  |      |       |      |
| PCB-167             | 1.46              | 5.84     | 11.4    | --   |                 | 11.4                     | 11.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.0948            | 0.3792   |         | E    | <5x*B           | 0                        |       | 0.01           | 0.0                   |       |                      | 0.0%  |      |       |      |
| PCB-189             | 1.33              | 5.32     |         | --   | <5x*B           | 0.7                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.8   | 0.1       | 0.0   | 1.3          | 0.8   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 898 PE Clean Ref-F-17

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0591            | 0.2364 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0775            | 0.31   |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.251             | 1.004  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.117             | 0.468  |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8-PeCDD     | 0.668             | 2.672  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 18.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.794             | 3.176  |         | EI   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0725            | 0.29   | 2.79    | ID   |                 | 1.4                      |       | 0.1            | 0.1                   |       | 8.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 1.08              | 4.32   |         | --   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 3.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.337             | 1.348  | 1.3     | B    | <5x*B           | 1.3                      | 0.3   | 0.1            | 0.1                   | 0.0   | 8.1%                 | 3.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.103             | 0.412  | 0.8     | I    |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 5.0%                 | 10.0% |
| 1,2,3,6,7,8-HxCDD   | 0.0966            | 0.3864 | 1.67    | I    |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 10.5%                | 21.2% |
| 1,2,3,7,8,9-HxCDD   | 0.541             | 2.164  |         | EJ   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 1.9%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 20.2              | 80.8   |         | DI   | <5x*B           | 5.1                      |       | 0.01           | 0.1                   |       | 3.2%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.424             | 1.696  |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.523             | 2.092  | 38.2    | --   |                 | 38.2                     | 38.2  | 0.01           | 0.4                   | 0.4   | 23.7%                | 47.6% |
| OCDF                | 2.6               | 10.4   | 12.5    | BI   | <5x*B           | 12.5                     | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 3.11              | 12.44  | 309     | I    |                 | 309                      | 309   | 0.0001         | 0.0                   | 0.0   | 1.9%                 | 3.9%  |
| PCB-77              | 0.159             | 0.636  | 5.12    | B    | <5x*B           | 5.1                      | 2.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.132             | 0.528  | 0.37    | B    | <5x*B           | 0.4                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.293             | 1.172  | 197     | --   |                 | 197                      | 197   | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 2.5%  |
| PCB-114             | 0.289             | 1.156  | 11      | --   |                 | 11                       | 11    | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.7%  |
| PCB-118             | 0.267             | 1.068  | 431     | --   |                 | 431                      | 431   | 0.0001         | 0.0                   | 0.0   | 2.7%                 | 5.4%  |
| PCB-123             | 0.304             | 1.216  | 6.57    | --   |                 | 6.6                      | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 0.862             | 3.448  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |
| PCB-156             | 0.0534            | 0.2136 | 63.3    | --   |                 | 63.3                     | 63.3  | 0.0005         | 0.0                   | 0.0   | 2.0%                 | 3.9%  |
| PCB-157             | 0.0539            | 0.2156 | 14.3    | --   |                 | 14.3                     | 14.3  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.9%  |
| PCB-167             | 0.0511            | 0.2044 | 24.1    | J    |                 | 24.1                     | 12.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.124             | 0.496  |         | EI   | <5x*B           | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 3.22              | 12.88  |         | E    |                 | 1.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 0.7   | 0.0       | 0.0   | 1.5          | 0.7   |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 990 PE Clean Ref-F-29

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0164            | 0.0656 | --      |      |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0145            | 0.058  | --      |      |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00907           | 0.0363 | 0.153   | --   |                 | 0.2                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.00755           | 0.0302 | 0.222   | --   |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 5.4%                 | 6.8%  |
| 1,2,3,7,8-PeCDD     | 0.0119            | 0.0476 | 0.632   | B    | <5x*B           | 0.6                      | 0.3   | 1              | 0.6                   | 0.3   | 32.4%                | 20.3% |
| 1,2,3,4,7,8-HxCDF   | 0.0479            | 0.1916 | 0.552   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0412            | 0.1648 | 0.453   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 2.7%                 | 1.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.0496            | 0.1984 | --      |      |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0574            | 0.2296 | 0.418   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 2.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0463            | 0.1852 | 0.901   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.9%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0412            | 0.1648 | 1.53    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 8.1%                 | 10.2% |
| 1,2,3,7,8,9-HxCDD   | 0.0437            | 0.1748 | 1.35    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 7.6%                 | 9.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0244            | 0.0976 | 5.54    | --   |                 | 5.5                      | 5.5   | 0.01           | 0.1                   | 0.1   | 3.0%                 | 3.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0352            | 0.1408 | 0.569   | --   |                 | 0.6                      | 0.6   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0401            | 0.1604 | 39.1    | --   |                 | 39.1                     | 39.1  | 0.01           | 0.4                   | 0.4   | 21.1%                | 26.5% |
| OCDF                | 0.0378            | 0.1512 | 8.07    | --   |                 | 8.1                      | 8.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0467            | 0.1868 | 338     | --   |                 | 338                      | 338   | 0.0001         | 0.0                   | 0.0   | 1.8%                 | 2.3%  |
| PCB-77              | 0.0215            | 0.086  | 3.81    | B    | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0243            | 0.0972 | 0.394   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.276             | 1.104  | 71.8    | --   |                 | 71.8                     | 71.8  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| PCB-114             | 0.288             | 1.152  | 3.75    | B    | <5x*B           | 3.8                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.308             | 1.232  | 165     | --   |                 | 165                      | 165   | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.1%  |
| PCB-123             | 0.35              | 1.4    | 2.68    | J    |                 | 2.7                      | 1.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.129             | 0.516  | 0.826   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 5.4%  |
| PCB-156             | 0.142             | 0.568  | 23.9    | --   |                 | 23.9                     | 23.9  | 0.0005         | 0.0                   | 0.0   | 0.6%                 | 0.8%  |
| PCB-157             | 0.146             | 0.584  | 6.07    | --   |                 | 6.1                      | 6.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.144             | 0.576  | 10.6    | --   |                 | 10.6                     | 10.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.27              | 1.08   | E       |      |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.0627            | 0.2508 | 1.77    | --   |                 | 1.8                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.8               | 1.4   | 0.1       | 0.1   | 1.9          | 1.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 995               | PE Clean | blank |         |       |                 |                          |       |                |                       |       |                      |       |      |       |
|---------------------|-------------------|----------|-------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|
| Analyte             | Analytical Limits |          |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |
|                     | EDL               | QL       | Conc  | Flag    | Full  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0391            | 0.1564   | 0.102 | BNJ     | <5x*B | 0.1             |                          |       | 0.1            | 0.0                   |       |                      | 0.6%  |      |       |
| 2,3,7,8-TCDD        | 0.0675            | 0.27     |       | E       |       | 0               |                          |       | 1              | 0.0                   |       |                      | 0.0%  |      |       |
| 1,2,3,7,8-PeCDF     | 0.0878            | 0.3512   | 0.136 | --      |       | 0.1             | 0.1                      |       | 0.05           | 0.0                   | 0.0   |                      | 0.3%  |      | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.17              | 0.68     |       | E       |       | 0.1             |                          |       | 0.5            | 0.1                   |       |                      | 3.2%  |      |       |
| 1,2,3,7,8-PeCDD     | 0.0647            | 0.2588   | 0.547 | --      |       | 0.5             | 0.5                      |       | 1              | 0.5                   | 0.5   |                      | 31.7% |      | 36.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0932            | 0.3728   | 0.414 | --      |       | 0.4             | 0.4                      |       | 0.1            | 0.0                   | 0.0   |                      | 2.5%  |      | 2.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0828            | 0.3312   | 0.757 | ID      |       | 0.4             |                          |       | 0.1            | 0.0                   |       |                      | 2.5%  |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.136             | 0.544    | 0.485 | B       | <5x*B | 0.5             | 0.1                      |       | 0.1            | 0.1                   | 0.0   |                      | 3.2%  |      | 0.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.193             | 0.772    | 0.379 | B       | <5x*B | 0.4             | 0.1                      |       | 0.1            | 0.0                   | 0.0   |                      | 2.5%  |      | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.108             | 0.432    | 0.804 | --      |       | 0.8             | 0.8                      |       | 0.1            | 0.1                   | 0.1   |                      | 5.1%  |      | 5.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0949            | 0.3796   | 1.5   | I       |       | 1.5             | 1.5                      |       | 0.1            | 0.2                   | 0.2   |                      | 9.5%  |      | 10.9% |
| 1,2,3,7,8,9-HxCDD   | 0.0895            | 0.358    | 0.654 | I       |       | 0.7             | 0.7                      |       | 0.1            | 0.1                   | 0.1   |                      | 4.4%  |      | 5.1%  |
| 1,2,3,4,6,7,8-HpCDF | 5.97              | 23.88    |       | D       | <5x*B | 1.5             |                          |       | 0.01           | 0.0                   |       |                      | 1.0%  |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.139             | 0.556    | 0.368 | --      |       | 0.4             | 0.2                      |       | 0.01           | 0.0                   | 0.0   |                      | 0.3%  |      | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.115             | 0.46     | 38.2  | --      |       | 38.2            | 38.2                     |       | 0.01           | 0.4                   | 0.4   |                      | 24.2% |      | 27.7% |
| OCDF                | 0.173             | 0.692    | 9.94  | --      |       | 9.9             | 9.9                      |       | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.1%  |
| OCDD                | 0.121             | 0.484    | 319   | --      |       | 319             | 319                      |       | 0.0001         | 0.0                   | 0.0   |                      | 2.0%  |      | 2.3%  |
| PCB-77              | 0.0337            | 0.1348   | 3.69  | B       | <5x*B | 3.7             | 1.8                      |       | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |
| PCB-81              | 0.0395            | 0.158    | 0.337 | B       | <5x*B | 0.3             | 0.2                      |       | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |
| PCB-105             | 0.22              | 0.88     | 64.7  | B       | <5x*B | 64.7            | 32.4                     |       | 0.0001         | 0.0                   | 0.0   |                      | 0.4%  |      | 0.2%  |
| PCB-114             | 0.219             | 0.876    | 3.46  | --      |       | 3.5             | 3.5                      |       | 0.0005         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.1%  |
| PCB-118             | 0.183             | 0.732    | 144   | B       | <5x*B | 144             | 72                       |       | 0.0001         | 0.0                   | 0.0   |                      | 0.9%  |      | 0.5%  |
| PCB-123             | 0.206             | 0.824    |       | --      |       | 0.1             |                          |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |
| PCB-126             | 0.0763            | 0.3052   | 0.698 | --      |       | 0.7             | 0.7                      |       | 0.1            | 0.1                   | 0.1   |                      | 4.4%  |      | 5.1%  |
| PCB-156             | 0.25              | 1        | 21.6  | --      |       | 21.6            | 21.6                     |       | 0.0005         | 0.0                   | 0.0   |                      | 0.7%  |      | 0.8%  |
| PCB-157             | 0.263             | 1.052    | 6.51  | --      |       | 6.5             | 6.5                      |       | 0.0005         | 0.0                   | 0.0   |                      | 0.2%  |      | 0.2%  |
| PCB-167             | 0.243             | 0.972    | 10.5  | --      |       | 10.5            | 10.5                     |       | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |
| PCB-169             | 0.0781            | 0.3124   | 0.108 | --      |       | 0.1             | 0.1                      |       | 0.01           | 0.0                   | 0.0   |                      | 0.1%  |      | 0.1%  |
| PCB-189             | 0.588             | 2.352    | 1.78  | --      |       | 1.8             | 0.9                      |       | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 1.3   | 0.1       | 0.1   | 1.6          | 1.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1004              | PE Low Std | PEL-R   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.493             | 1.972      | 2.07    | NJ   |                 | 1                        |       | 0.1            | 0.1                   |       | 0.2%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.215             | 0.86       | 5.99    | --   |                 | 6                        | 6     | 1              | 6.0                   | 6.0   | 14.6%                | 14.9% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.114             | 0.456      | 60.4    | --   |                 | 60.4                     | 60.4  | 0.05           | 3.0                   | 3.0   | 7.4%                 | 7.5%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.13              | 0.52       | 15.6    | --   |                 | 15.6                     | 15.6  | 0.5            | 7.8                   | 7.8   | 19.0%                | 19.4% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.035             | 0.14       | 10.9    | --   |                 | 10.9                     | 10.9  | 1              | 10.9                  | 10.9  | 26.6%                | 27.1% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.335             | 1.34       | 18.8    | --   |                 | 18.8                     | 18.8  | 0.1            | 1.9                   | 1.9   | 4.6%                 | 4.7%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1.16              | 4.64       |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.49              | 1.96       | 42      | --   |                 | 42                       | 42    | 0.1            | 4.2                   | 4.2   | 10.3%                | 10.4% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.488             | 1.952      | 38.2    | --   |                 | 38.2                     | 38.2  | 0.1            | 3.8                   | 3.8   | 9.3%                 | 9.5%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.404             | 1.616      | 4.75    | --   |                 | 4.8                      | 4.8   | 0.1            | 0.5                   | 0.5   | 1.2%                 | 1.2%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.316             | 1.264      | 8.37    | --   |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 2.1%                 | 2.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.33              | 1.32       | 1.78    | J    |                 | 1.8                      | 0.9   | 0.1            | 0.2                   | 0.1   | 0.4%                 | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 3.43              | 13.72      |         | D    |                 | 0.9                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.543             | 2.172      | 38.9    | --   |                 | 38.9                     | 38.9  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 1.0%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.276             | 1.104      | 61.1    | --   |                 | 61.1                     | 61.1  | 0.01           | 0.6                   | 0.6   | 1.5%                 | 1.5%  |      |       |      |
| OCDF                | 0.401             | 1.604      | 16.7    | --   |                 | 16.7                     | 16.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.386             | 1.544      | 205     | B    |                 | 205                      | 102.5 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| PCB-77              | 3.14              | 12.56      | 11.8    | B    |                 | 11.8                     | 3     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 2.25              | 9          |         | --   |                 | 1.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 11.7              | 46.8       | 447     | --   |                 | 447                      | 447   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-114             | 10.8              | 43.2       | 23.4    | --   |                 | 23.4                     | 11.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 10.3              | 41.2       | 939     | --   |                 | 939                      | 939   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| PCB-123             | 10.5              | 42         | 16.4    | --   |                 | 16.4                     | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 9.23              | 36.92      | 2.38    | --   |                 | 4.6                      |       | 0.1            | 0.5                   |       | 1.1%                 |       |      |       |      |
| PCB-156             | 1.43              | 5.72       | 112     | --   |                 | 112                      | 112   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-157             | 1.5               | 6          | 26.1    | --   |                 | 26.1                     | 26.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 1.12              | 4.48       | 30.5    | --   |                 | 30.5                     | 30.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 1.3               | 5.2        |         | --   |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.47              | 1.88       | 4.78    | --   |                 | 4.8                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 40.2              | 40.0  | 0.7       | 0.2   | 40.9         | 40.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1006              | PE Low Std | PEL-F   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.269             | 1.076      | 3.19    | NJ   |                 | 1.6                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.218             | 0.872      | 9.65    | --   |                 | 9.7                      | 9.7   | 1              | 9.7                   | 9.7   | 14.9%                | 15.1% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.262             | 1.048      | 96.4    | --   |                 | 96.4                     | 96.4  | 0.05           | 4.8                   | 4.8   | 7.4%                 | 7.5%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.44              | 1.76       | 25.7    | --   |                 | 25.7                     | 25.7  | 0.5            | 12.9                  | 12.9  | 19.7%                | 20.0% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.274             | 1.096      | 17.7    | --   |                 | 17.7                     | 17.7  | 1              | 17.7                  | 17.7  | 27.2%                | 27.6% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.453             | 1.812      | 28.7    | --   |                 | 28.7                     | 28.7  | 0.1            | 2.9                   | 2.9   | 4.4%                 | 4.5%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1.87              | 7.48       |         | D    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.1%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.517             | 2.068      | 62.8    | --   |                 | 62.8                     | 62.8  | 0.1            | 6.3                   | 6.3   | 9.6%                 | 9.8%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.613             | 2.452      | 58.7    | --   |                 | 58.7                     | 58.7  | 0.1            | 5.9                   | 5.9   | 9.0%                 | 9.2%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.208             | 0.832      | 8.36    | --   |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 1.3%                 | 1.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.173             | 0.692      | 13.2    | --   |                 | 13.2                     | 13.2  | 0.1            | 1.3                   | 1.3   | 2.0%                 | 2.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.176             | 0.704      | 2.48    | J    |                 | 2.5                      | 1.2   | 0.1            | 0.3                   | 0.1   | 0.4%                 | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 5.61              | 22.44      |         | D    |                 | 1.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 1.19              | 4.76       | 58.9    | --   |                 | 58.9                     | 58.9  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.46              | 1.84       | 91.3    | --   |                 | 91.3                     | 91.3  | 0.01           | 0.9                   | 0.9   | 1.4%                 | 1.4%  |      |       |      |
| OCDF                | 0.274             | 1.096      | 21.8    | --   |                 | 21.8                     | 21.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.233             | 0.932      | 335     | --   |                 | 335                      | 335   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-77              | 3.29              | 13.16      | 15      | --   |                 | 15                       | 15    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 3.03              | 12.12      |         | --   |                 | 1.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 13.1              | 52.4       | 573     | --   |                 | 573                      | 573   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-114             | 12.1              | 48.4       | 29.3    | --   |                 | 29.3                     | 14.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 11.5              | 46         | 1150    | J    |                 | 1150                     | 575   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |
| PCB-123             | 11.8              | 47.2       | 18.5    | --   |                 | 18.5                     | 9.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 11.8              | 47.2       | 3.46    | --   |                 | 5.9                      |       | 0.1            | 0.6                   |       | 0.9%                 |       |      |       |      |
| PCB-156             | 1.28              | 5.12       | 162     | --   |                 | 162                      | 162   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-157             | 1.34              | 5.36       | 37.3    | --   |                 | 37.3                     | 37.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 0.939             | 3.756      | 40.7    | --   |                 | 40.7                     | 40.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 1.08              | 4.32       |         | --   |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.5               | 2          | 7.38    | --   |                 | 7.4                      | 7.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 64.4              | 63.9  | 0.9       | 0.3   | 65.3         | 64.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1008              | PE Low Std | PEL-F   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.676             | 2.704      | 3.38    | NJ   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.218             | 0.872      | 9.42    | --   |                 | 9.4                      | 9.4   | 1              | 9.4                   | 9.4   | 14.4%                | 14.6% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.445             | 1.78       | 86.6    | --   |                 | 86.6                     | 86.6  | 0.05           | 4.3                   | 4.3   | 6.6%                 | 6.7%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.577             | 2.308      | 26.1    | --   |                 | 26.1                     | 26.1  | 0.5            | 13.1                  | 13.1  | 19.9%                | 20.2% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.163             | 0.652      | 17.9    | --   |                 | 17.9                     | 17.9  | 1              | 17.9                  | 17.9  | 27.4%                | 27.7% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.45              | 1.8        | 28.2    | --   |                 | 28.2                     | 28.2  | 0.1            | 2.8                   | 2.8   | 4.3%                 | 4.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1.32              | 5.28       |         | D    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.527             | 2.108      | 64.7    | --   |                 | 64.7                     | 64.7  | 0.1            | 6.5                   | 6.5   | 9.9%                 | 10.0% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.649             | 2.596      | 62.2    | --   |                 | 62.2                     | 62.2  | 0.1            | 6.2                   | 6.2   | 9.5%                 | 9.6%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.201             | 0.804      | 9.01    | --   |                 | 9                        | 9     | 0.1            | 0.9                   | 0.9   | 1.4%                 | 1.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.205             | 0.82       | 13.4    | --   |                 | 13.4                     | 13.4  | 0.1            | 1.3                   | 1.3   | 2.0%                 | 2.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.19              | 0.76       | 3.28    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 5.86              | 23.44      |         | D    |                 | 1.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.666             | 2.664      | 56.6    | --   |                 | 56.6                     | 56.6  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.398             | 1.592      | 92.2    | --   |                 | 92.2                     | 92.2  | 0.01           | 0.9                   | 0.9   | 1.4%                 | 1.4%  |      |       |      |
| OCDF                | 0.267             | 1.068      | 24.8    | --   |                 | 24.8                     | 24.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.342             | 1.368      | 370     | --   |                 | 370                      | 370   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-77              | 2.9               | 11.6       | 15.1    | --   |                 | 15.1                     | 15.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 3.11              | 12.44      |         | --   |                 | 1.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 14.4              | 57.6       | 588     | --   |                 | 588                      | 588   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-114             | 13.3              | 53.2       | 27      | --   |                 | 27                       | 13.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 12.1              | 48.4       | 1220    | CJ   |                 | 1220                     | 610   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |
| PCB-123             | 12.4              | 49.6       | 15.7    | --   |                 | 15.7                     | 7.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 12.2              | 48.8       |         | --   |                 | 6.1                      |       | 0.1            | 0.6                   |       | 0.9%                 |       |      |       |      |
| PCB-156             | 1.5               | 6          | 172     | --   |                 | 172                      | 172   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-157             | 1.58              | 6.32       | 41.5    | --   |                 | 41.5                     | 41.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 1.18              | 4.72       | 45.7    | --   |                 | 45.7                     | 45.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 1.37              | 5.48       |         | --   |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.445             | 1.78       | 7.55    | --   |                 | 7.6                      | 7.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 64.4              | 64.2  | 0.9       | 0.3   | 65.3         | 64.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1009              | PE Low Std | PEL-B   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 4.13              | 16.52      | 2.41    | NJ   |                 | 1                        |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 3.26              | 13.04      | 5.2     | --   |                 | 5.2                      | 2.6   | 1              | 5.2                   | 2.6   | 13.5%                | 9.6%  |      |       |      |
| 1,2,3,7,8-PeCDF     | 2.88              | 11.52      | 63.5    | --   |                 | 63.5                     | 63.5  | 0.05           | 3.2                   | 3.2   | 8.2%                 | 11.8% |      |       |      |
| 2,3,4,7,8-PeCDF     | 2.72              | 10.88      | 16.4    | --   |                 | 16.4                     | 16.4  | 0.5            | 8.2                   | 8.2   | 21.3%                | 30.4% |      |       |      |
| 1,2,3,7,8-PeCDD     | 13.4              | 53.6       |         | E    |                 | 6.7                      |       | 1              | 6.7                   |       | 17.4%                |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 2.48              | 9.92       | 23.7    | --   |                 | 23.7                     | 23.7  | 0.1            | 2.4                   | 2.4   | 6.2%                 | 8.8%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 2.06              | 8.24       | 1.46    | --   |                 | 1                        |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 3.69              | 14.76      | 54.7    | --   |                 | 54.7                     | 54.7  | 0.1            | 5.5                   | 5.5   | 14.2%                | 20.2% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.7               | 6.8        | 40      | --   |                 | 40                       | 40    | 0.1            | 4.0                   | 4.0   | 10.4%                | 14.8% |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 5.99              | 23.96      |         | E    |                 | 3                        |       | 0.1            | 0.3                   |       | 0.8%                 |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 3.08              | 12.32      | 10.6    | --   |                 | 10.6                     | 5.3   | 0.1            | 1.1                   | 0.5   | 2.8%                 | 2.0%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 2.98              | 11.92      | 1.82    | --   |                 | 1.5                      |       | 0.1            | 0.2                   |       | 0.4%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 3.96              | 15.84      | 5.34    | --   |                 | 5.3                      | 2.7   | 0.01           | 0.1                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 7.81              | 31.24      | 40.4    | --   |                 | 40.4                     | 40.4  | 0.01           | 0.4                   | 0.4   | 1.0%                 | 1.5%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 86.5              | 346        |         | EJI  |                 | 43.3                     |       | 0.01           | 0.4                   |       | 1.1%                 |       |      |       |      |
| OCDF                | 24.3              | 97.2       |         | E    |                 | 12.2                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| OCDD                | 4.32              | 17.28      | 249     | B    |                 | 249                      | 124.5 | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| PCB-77              | 2.47              | 9.88       | 12.3    | B    |                 | 12.3                     | 6.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 2.29              | 9.16       |         | --   |                 | 1.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 13.2              | 52.8       | 476     | --   |                 | 476                      | 476   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |
| PCB-114             | 12.2              | 48.8       | 14.8    | --   |                 | 14.8                     | 7.4   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 11                | 44         | 968     | --   |                 | 968                      | 968   | 0.0001         | 0.1                   | 0.1   | 0.3%                 | 0.4%  |      |       |      |
| PCB-123             | 11.2              | 44.8       | 13.3    | --   |                 | 13.3                     | 6.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 11.1              | 44.4       |         | --   |                 | 5.6                      |       | 0.1            | 0.6                   |       | 1.5%                 |       |      |       |      |
| PCB-156             | 1.01              | 4.04       | 123     | --   |                 | 123                      | 123   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| PCB-157             | 1.06              | 4.24       | 28.8    | --   |                 | 28.8                     | 28.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| PCB-167             | 0.774             | 3.096      | 32.9    | --   |                 | 32.9                     | 32.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.893             | 3.572      |         | --   |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.932             | 3.728      | 5.29    | --   |                 | 5.3                      | 5.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 37.9              | 26.8  | 0.8       | 0.2   | 38.7         | 27.0  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1012              | PE Low Std | PEL-S   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.181             | 0.724      | 1.51    | NJ   |                 | 0.8                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.183             | 0.732      | 4.9     | --   |                 | 4.9                      | 4.9   | 1              | 4.9                   | 4.9   | 16.0%                | 16.4% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.329             | 1.316      | 36.9    | --   |                 | 36.9                     | 36.9  | 0.05           | 1.8                   | 1.8   | 6.0%                 | 6.2%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.279             | 1.116      | 11.6    | --   |                 | 11.6                     | 11.6  | 0.5            | 5.8                   | 5.8   | 19.0%                | 19.4% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.296             | 1.184      | 8.38    | --   |                 | 8.4                      | 8.4   | 1              | 8.4                   | 8.4   | 27.5%                | 28.1% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.311             | 1.244      | 12      | --   |                 | 12                       | 12    | 0.1            | 1.2                   | 1.2   | 3.9%                 | 4.0%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.744             | 2.976      |         | --   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.368             | 1.472      | 28.3    | --   |                 | 28.3                     | 28.3  | 0.1            | 2.8                   | 2.8   | 9.2%                 | 9.5%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.434             | 1.736      | 29.4    | --   |                 | 29.4                     | 29.4  | 0.1            | 2.9                   | 2.9   | 9.6%                 | 9.8%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.292             | 1.168      | 3.76    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 1.2%                 | 1.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.255             | 1.02       | 6.32    | --   |                 | 6.3                      | 6.3   | 0.1            | 0.6                   | 0.6   | 2.1%                 | 2.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.253             | 1.012      | 1.19    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 0.4%                 | 0.4%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.235             | 0.94       | 1.5     | --   |                 | 1.5                      | 1.5   | 0.01           | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.389             | 1.556      | 26.1    | --   |                 | 26.1                     | 26.1  | 0.01           | 0.3                   | 0.3   | 0.9%                 | 0.9%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.31              | 1.24       | 35.9    | --   |                 | 35.9                     | 35.9  | 0.01           | 0.4                   | 0.4   | 1.2%                 | 1.2%  |      |       |      |
| OCDF                | 0.251             | 1.004      | 10.8    | --   |                 | 10.8                     | 10.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.292             | 1.168      | 112     | B    |                 | 112                      | 56    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-77              | 2.26              | 9.04       | 10      | --   |                 | 10                       | 10    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 2.87              | 11.48      |         | --   |                 | 1.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 5.13              | 20.52      | 353     | --   |                 | 353                      | 353   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-114             | 4.74              | 18.96      | 14.2    | --   |                 | 14.2                     | 7.1   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 4.37              | 17.48      | 710     | --   |                 | 710                      | 710   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| PCB-123             | 4.46              | 17.84      | 13.3    | --   |                 | 13.3                     | 6.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 12.1              | 48.4       |         | --   |                 | 6.1                      |       | 0.1            | 0.6                   |       | 2.0%                 |       |      |       |      |
| PCB-156             | 0.68              | 2.72       | 90.5    | --   |                 | 90.5                     | 90.5  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |      |       |      |
| PCB-157             | 0.712             | 2.848      | 19.1    | --   |                 | 19.1                     | 19.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 0.572             | 2.288      | 92.1    | --   |                 | 92.1                     | 92.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.66              | 2.64       |         | --   |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 1.63              | 6.52       | 3.66    | --   |                 | 3.7                      | 1.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 29.7              | 29.6  | 0.7       | 0.1   | 30.4         | 29.7  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 204 PE Low Std PC00265

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0287            | 0.1148 | 2.51    | NJ   |                 | 1.3                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0126            | 0.0504 | 7.19    | --   |                 | 7.2                      | 7.2   | 1              | 7.2                   | 7.2   | 15.8%                | 15.9% |
| 1,2,3,7,8-PeCDF     | 0.0277            | 0.1108 | 64.2    | --   |                 | 64.2                     | 64.2  | 0.05           | 3.2                   | 3.2   | 7.0%                 | 7.1%  |
| 2,3,4,7,8-PeCDF     | 0.0299            | 0.1196 | 16.9    | --   |                 | 16.9                     | 16.9  | 0.5            | 8.5                   | 8.5   | 18.5%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.0284            | 0.1136 | 12      | --   |                 | 12                       | 12    | 1              | 12.0                  | 12.0  | 26.3%                | 26.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0358            | 0.1432 | 19.3    | --   |                 | 19.3                     | 19.3  | 0.1            | 1.9                   | 1.9   | 4.2%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0328            | 0.1312 | 1.26    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0392            | 0.1568 | 47.1    | --   |                 | 47.1                     | 47.1  | 0.1            | 4.7                   | 4.7   | 10.3%                | 10.4% |
| 1,2,3,7,8,9-HxCDF   | 0.0461            | 0.1844 | 44.6    | --   |                 | 44.6                     | 44.6  | 0.1            | 4.5                   | 4.5   | 9.8%                 | 9.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.0171            | 0.0684 | 6.66    | --   |                 | 6.7                      | 6.7   | 0.1            | 0.7                   | 0.7   | 1.5%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0149            | 0.0596 | 10.1    | --   |                 | 10.1                     | 10.1  | 0.1            | 1.0                   | 1.0   | 2.2%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0165            | 0.066  | 1.82    | J    |                 | 1.8                      | 0.9   | 0.1            | 0.2                   | 0.1   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0561            | 0.2244 | 3.23    | I    |                 | 3.2                      | 3.2   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0735            | 0.294  | 41      | --   |                 | 41                       | 41    | 0.01           | 0.4                   | 0.4   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.053             | 0.212  | 63.5    | --   |                 | 63.5                     | 63.5  | 0.01           | 0.6                   | 0.6   | 1.4%                 | 1.4%  |
| OCDF                | 0.0172            | 0.0688 | 18.7    | --   |                 | 18.7                     | 18.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0235            | 0.094  | 242     | --   |                 | 242                      | 242   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0363            | 0.1452 | 12.1    | B    | <5x*B           | 12.1                     | 6.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0476            | 0.1904 | 0.683   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.463             | 1.852  | 488     | --   |                 | 488                      | 488   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 0.46              | 1.84   | 23.8    | --   |                 | 23.8                     | 23.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.402             | 1.608  | 973     | CJ   |                 | 973                      | 486.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-123             | 0.452             | 1.808  | 16.9    | J    |                 | 16.9                     | 8.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0766            | 0.3064 | 2.61    | --   |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 0.6%                 | 0.6%  |
| PCB-156             | 0.144             | 0.576  | 120     | --   |                 | 120                      | 120   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.152             | 0.608  | 29      | --   |                 | 29                       | 29    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.14              | 0.56   | 38.9    | --   |                 | 38.9                     | 38.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.62              | 6.48   | E       |      |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.0603            | 0.2412 | 5.84    | --   |                 | 5.8                      | 5.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 45.1              | 44.9  | 0.5       | 0.4   | 45.6         | 45.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 206 | PE Low Std | PEL-F-4 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.522             | 2.088 | 3.94    | NJ   |                 | 2                        |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.18              | 0.72  | 11.2    | I    |                 | 11.2                     | 11.2  | 1              | 11.2                  | 11.2  | 15.4%                | 15.5% |
| 1,2,3,7,8-PeCDF     | 0.271             | 1.084 | 96.8    | --   |                 | 96.8                     | 96.8  | 0.05           | 4.8                   | 4.8   | 6.6%                 | 6.7%  |
| 2,3,4,7,8-PeCDF     | 0.23              | 0.92  | 26.9    | --   |                 | 26.9                     | 26.9  | 0.5            | 13.5                  | 13.5  | 18.5%                | 18.6% |
| 1,2,3,7,8-PeCDD     | 0.236             | 0.944 | 20.8    | I    |                 | 20.8                     | 20.8  | 1              | 20.8                  | 20.8  | 28.6%                | 28.8% |
| 1,2,3,4,7,8-HxCDF   | 0.48              | 1.92  | 29.7    | --   |                 | 29.7                     | 29.7  | 0.1            | 3.0                   | 3.0   | 4.1%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.443             | 1.772 | 2.13    | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.555             | 2.22  | 75.2    | I    |                 | 75.2                     | 75.2  | 0.1            | 7.5                   | 7.5   | 10.3%                | 10.4% |
| 1,2,3,7,8,9-HxCDF   | 0.651             | 2.604 | 65.2    | --   |                 | 65.2                     | 65.2  | 0.1            | 6.5                   | 6.5   | 8.9%                 | 9.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.193             | 0.772 | 9.84    | I    |                 | 9.8                      | 9.8   | 0.1            | 1.0                   | 1.0   | 1.3%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.164             | 0.656 | 14.5    | --   |                 | 14.5                     | 14.5  | 0.1            | 1.5                   | 1.5   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.165             | 0.66  | 3.22    | J    |                 | 3.2                      | 1.6   | 0.1            | 0.3                   | 0.2   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 7.15              | 28.6  |         | D    | <5x*B           | 1.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.445             | 1.78  | 63.4    | --   |                 | 63.4                     | 63.4  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.176             | 0.704 | 99.2    | --   |                 | 99.2                     | 99.2  | 0.01           | 1.0                   | 1.0   | 1.4%                 | 1.4%  |
| OCDF                | 0.176             | 0.704 | 33.6    | B    | <5x*B           | 33.6                     | 16.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.194             | 0.776 | 382     | --   |                 | 382                      | 382   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 4.5               | 18    | 20.3    | BIJ  | <5x*B           | 20.3                     | 10.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 5.19              | 20.76 |         | IJ   |                 | 2.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 15                | 60    | 627     | CJ   |                 | 627                      | 313.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-114             | 14.6              | 58.4  | 31.8    | --   |                 | 31.8                     | 15.9  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 13.3              | 53.2  | 1280    | CJ   |                 | 1280                     | 640   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 14                | 56    |         | --   | <5x*B           | 7                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.81              | 7.24  | 3.73    | I    |                 | 3.7                      | 1.9   | 0.1            | 0.4                   | 0.2   | 0.5%                 | 0.3%  |
| PCB-156             | 1.7               | 6.8   | 190     | --   |                 | 190                      | 190   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 1.81              | 7.24  | 45      | --   |                 | 45                       | 45    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 1.7               | 6.8   | 70.7    | --   |                 | 70.7                     | 70.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.43              | 5.72  |         | EI   |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.55              | 6.2   | 9.58    | --   |                 | 9.6                      | 9.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 72.1              | 71.8  | 0.7       | 0.4   | 72.8         | 72.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 210 | PE Low Std | PEL-F-3 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.291             | 1.164  | 3.85    | NJ   |                 | 1.9                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.157             | 0.628  | 10.2    | --   |                 | 10.2                     | 10.2  | 1              | 10.2                  | 10.2  | 14.1%                | 18.7% |
| 1,2,3,7,8-PeCDF     | 0.174             | 0.696  | 103     | --   |                 | 103                      | 103   | 0.05           | 5.2                   | 5.2   | 7.1%                 | 9.4%  |
| 2,3,4,7,8-PeCDF     | 0.162             | 0.648  | 29.5    | J    |                 | 29.5                     | 14.8  | 0.5            | 14.8                  | 7.4   | 20.4%                | 13.5% |
| 1,2,3,7,8-PeCDD     | 0.0891            | 0.3564 | 19.6    | J    |                 | 19.6                     | 9.8   | 1              | 19.6                  | 9.8   | 27.1%                | 17.9% |
| 1,2,3,4,7,8-HxCDF   | 0.216             | 0.864  | 31.3    | --   |                 | 31.3                     | 31.3  | 0.1            | 3.1                   | 3.1   | 4.3%                 | 5.7%  |
| 1,2,3,6,7,8-HxCDF   | 1.84              | 7.36   |         | D    | <5x*B           | 0.5                      |       | 0.1            | 0.1                   |       | 0.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.226             | 0.904  | 72.7    | --   |                 | 72.7                     | 72.7  | 0.1            | 7.3                   | 7.3   | 10.1%                | 13.3% |
| 1,2,3,7,8,9-HxCDF   | 0.279             | 1.116  | 69.5    | --   |                 | 69.5                     | 69.5  | 0.1            | 7.0                   | 7.0   | 9.6%                 | 12.7% |
| 1,2,3,4,7,8-HxCDD   | 0.139             | 0.556  | 9.71    | --   |                 | 9.7                      | 9.7   | 0.1            | 1.0                   | 1.0   | 1.3%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.12              | 0.48   | 14.9    | --   |                 | 14.9                     | 14.9  | 0.1            | 1.5                   | 1.5   | 2.1%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.12              | 0.48   | 2.82    | --   |                 | 2.8                      | 2.8   | 0.1            | 0.3                   | 0.3   | 0.4%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDF | 8.51              | 34     |         | D    |                 | 2.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.22              | 0.88   | 62.1    | --   |                 | 62.1                     | 62.1  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 1.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.137             | 0.548  | 93.2    | --   |                 | 93.2                     | 93.2  | 0.01           | 0.9                   | 0.9   | 1.3%                 | 1.7%  |
| OCDF                | 0.106             | 0.424  | 32      | --   |                 | 32                       | 32    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.104             | 0.416  | 389     | --   |                 | 389                      | 389   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 1.16              | 4.64   | 15.5    | --   |                 | 15.5                     | 15.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.548             | 2.192  | 0.641   | B    | <5x*B           | 0.6                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 25.8              | 103.2  | 683     | C    |                 | 683                      | 683   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-114             | 25.2              | 100.8  | 32.8    | --   |                 | 32.8                     | 16.4  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 21.7              | 86.8   | 1380    | CJ   |                 | 1380                     | 690   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 23                | 92     | 31.5    | --   |                 | 31.5                     | 15.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.866             | 3.464  | 3.17    | --   |                 | 3.2                      | 1.6   | 0.1            | 0.3                   | 0.2   | 0.4%                 | 0.3%  |
| PCB-156             | 0.843             | 3.372  | 184     | --   |                 | 184                      | 184   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| PCB-157             | 0.836             | 3.344  | 40.3    | --   |                 | 40.3                     | 40.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.824             | 3.296  | 65.2    | --   |                 | 65.2                     | 65.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.13              | 4.52   |         | E    |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.65              | 2.6    | 7.25    | --   |                 | 7.3                      | 7.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 71.8              | 54.3  | 0.6       | 0.5   | 72.4         | 54.8  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 239               | PE Low Std | PEL-B   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.226             | 0.904      | 2.46    | NJ   |                 | 1.2                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0852            | 0.3408     | 6.71    | --   |                 | 6.7                      | 6.7   | 1              | 6.7                   | 6.7   | 14.6%                | 19.1% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0853            | 0.3412     | 66.8    | --   |                 | 66.8                     | 66.8  | 0.05           | 3.3                   | 3.3   | 7.3%                 | 9.5%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0749            | 0.2996     | 18.4    | J    |                 | 18.4                     | 9.2   | 0.5            | 9.2                   | 4.6   | 20.0%                | 13.1% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.12              | 0.48       | 12.3    | J    |                 | 12.3                     | 6.2   | 1              | 12.3                  | 6.2   | 26.8%                | 17.7% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.192             | 0.768      | 19.6    | --   |                 | 19.6                     | 19.6  | 0.1            | 2.0                   | 2.0   | 4.3%                 | 5.6%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.204             | 0.816      | 1.28    | B    | <5x*B           | 1.3                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.2%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.21              | 0.84       | 45.9    | --   |                 | 45.9                     | 45.9  | 0.1            | 4.6                   | 4.6   | 10.0%                | 13.1% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.254             | 1.016      | 43      | --   |                 | 43                       | 43    | 0.1            | 4.3                   | 4.3   | 9.4%                 | 12.3% |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.154             | 0.616      | 6.13    | --   |                 | 6.1                      | 6.1   | 0.1            | 0.6                   | 0.6   | 1.3%                 | 1.7%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.137             | 0.548      | 9.71    | --   |                 | 9.7                      | 9.7   | 0.1            | 1.0                   | 1.0   | 2.1%                 | 2.8%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.135             | 0.54       | 1.83    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 0.4%                 | 0.5%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 4.74              | 18.96      |         | D    |                 | 1.2                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.157             | 0.628      | 41.7    | --   |                 | 41.7                     | 41.7  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 1.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.143             | 0.572      | 59.6    | --   |                 | 59.6                     | 59.6  | 0.01           | 0.6                   | 0.6   | 1.3%                 | 1.7%  |      |       |      |
| OCDF                | 0.189             | 0.756      | 21.2    | B    | <5x*B           | 21.2                     | 10.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.161             | 0.644      | 234     | --   |                 | 234                      | 234   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-77              | 0.971             | 3.884      | 11.8    | B    | <5x*B           | 11.8                     | 5.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 1.03              | 4.12       |         | --   | <5x*B           | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 4.64              | 18.56      | 526     | C    |                 | 526                      | 526   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.2%  |      |       |      |
| PCB-114             | 4.54              | 18.16      | 26.5    | --   |                 | 26.5                     | 26.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 3.67              | 14.68      | 1060    | CJ   |                 | 1060                     | 530   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| PCB-123             | 3.89              | 15.56      | 23.9    | --   |                 | 23.9                     | 23.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 0.492             | 1.968      | 2.35    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.5%                 | 0.7%  |      |       |      |
| PCB-156             | 0.703             | 2.812      | 140     | --   |                 | 140                      | 140   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| PCB-157             | 0.697             | 2.788      | 31      | --   |                 | 31                       | 31    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 0.667             | 2.668      | 52.4    | --   |                 | 52.4                     | 52.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.707             | 2.828      |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 5.71              | 22.84      |         | E    |                 | 2.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 45.4              | 34.6  | 0.5       | 0.5   | 45.9         | 35.1  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 243 PE Low Std PC00267

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.024             | 0.096  | 2.55    | NJ   |                 | 1.3                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0173            | 0.0692 | 6.98    | --   |                 | 7                        | 7     | 1              | 7.0                   | 7.0   | 15.0%                | 15.1% |
| 1,2,3,7,8-PeCDF     | 0.0196            | 0.0784 | 62.4    | --   |                 | 62.4                     | 62.4  | 0.05           | 3.1                   | 3.1   | 6.7%                 | 6.7%  |
| 2,3,4,7,8-PeCDF     | 0.0163            | 0.0652 | 18      | --   |                 | 18                       | 18    | 0.5            | 9.0                   | 9.0   | 19.3%                | 19.4% |
| 1,2,3,7,8-PeCDD     | 0.0481            | 0.1924 | 13.1    | --   |                 | 13.1                     | 13.1  | 1              | 13.1                  | 13.1  | 28.1%                | 28.2% |
| 1,2,3,4,7,8-HxCDF   | 0.0653            | 0.2612 | 19.3    | --   |                 | 19.3                     | 19.3  | 0.1            | 1.9                   | 1.9   | 4.1%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0564            | 0.2256 | 1.22    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0819            | 0.3276 | 47.4    | --   |                 | 47.4                     | 47.4  | 0.1            | 4.7                   | 4.7   | 10.2%                | 10.2% |
| 1,2,3,7,8,9-HxCDF   | 0.0748            | 0.2992 | 42.2    | --   |                 | 42.2                     | 42.2  | 0.1            | 4.2                   | 4.2   | 9.0%                 | 9.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0419            | 0.1676 | 6.04    | --   |                 | 6                        | 6     | 0.1            | 0.6                   | 0.6   | 1.3%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0367            | 0.1468 | 9.44    | --   |                 | 9.4                      | 9.4   | 0.1            | 0.9                   | 0.9   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0406            | 0.1624 | 2.08    | J    |                 | 2.1                      | 1     | 0.1            | 0.2                   | 0.1   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0441            | 0.1764 | 4.68    | --   |                 | 4.7                      | 4.7   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0525            | 0.21   | 42.1    | --   |                 | 42.1                     | 42.1  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0932            | 0.3728 | 59      | --   |                 | 59                       | 59    | 0.01           | 0.6                   | 0.6   | 1.3%                 | 1.3%  |
| OCDF                | 0.0702            | 0.2808 | 19.2    | J    |                 | 19.2                     | 9.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0909            | 0.3636 | 228     | --   |                 | 228                      | 228   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0462            | 0.1848 | 12.9    | B    | <5x*B           | 12.9                     | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0515            | 0.206  | 0.835   | B    | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.12              | 8.48   | 527     | CJ   |                 | 527                      | 263.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 2.22              | 8.88   | 33.5    | --   |                 | 33.5                     | 33.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 2.48              | 9.92   | 1020    | CJ   |                 | 1020                     | 510   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 2.82              | 11.28  | 15      | --   |                 | 15                       | 15    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.347             | 1.388  | 2.44    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.5%                 | 0.5%  |
| PCB-156             | 0.415             | 1.66   | 141     | --   |                 | 141                      | 141   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-157             | 0.429             | 1.716  | 32.2    | --   |                 | 32.2                     | 32.2  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.422             | 1.688  | 47.4    | --   |                 | 47.4                     | 47.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.867             | 3.468  | E       |      |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.353             | 1.412  | 6.55    | --   |                 | 6.6                      | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 45.9              | 45.7  | 0.5       | 0.4   | 46.4         | 46.1  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 247 PE Low Std PEL-F-14

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.32              | 1.28  | 3.94    | NJ   |                 | 2                        |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.583             | 2.332 | 10.1    | --   |                 | 10.1                     | 10.1  | 1              | 10.1                  | 10.1  | 14.7%                | 14.8% |
| 1,2,3,7,8-PeCDF     | 0.694             | 2.776 | 93.9    | --   |                 | 93.9                     | 93.9  | 0.05           | 4.7                   | 4.7   | 6.8%                 | 6.9%  |
| 2,3,4,7,8-PeCDF     | 0.523             | 2.092 | 24.7    | --   |                 | 24.7                     | 24.7  | 0.5            | 12.4                  | 12.4  | 17.9%                | 18.1% |
| 1,2,3,7,8-PeCDD     | 0.763             | 3.052 | 19.4    | I    |                 | 19.4                     | 19.4  | 1              | 19.4                  | 19.4  | 28.2%                | 28.4% |
| 1,2,3,4,7,8-HxCDF   | 0.55              | 2.2   | 27.8    | --   |                 | 27.8                     | 27.8  | 0.1            | 2.8                   | 2.8   | 4.0%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.55              | 2.2   | 2.03    | --   |                 | 2                        | 1     | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 1.05              | 4.2   | 73.1    | --   |                 | 73.1                     | 73.1  | 0.1            | 7.3                   | 7.3   | 10.6%                | 10.7% |
| 1,2,3,7,8,9-HxCDF   | 2.2               | 8.8   | 64      | --   |                 | 64                       | 64    | 0.1            | 6.4                   | 6.4   | 9.3%                 | 9.4%  |
| 1,2,3,4,7,8-HxCDD   | 1.3               | 5.2   | 10.5    | --   |                 | 10.5                     | 10.5  | 0.1            | 1.1                   | 1.1   | 1.5%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 1.13              | 4.52  | 15.4    | --   |                 | 15.4                     | 15.4  | 0.1            | 1.5                   | 1.5   | 2.2%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDD   | 1.05              | 4.2   | 2.23    | J    |                 | 2.2                      | 0.6   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDF | 1.44              | 5.76  | 6.53    | --   |                 | 6.5                      | 6.5   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 3.93              | 15.72 | 61.9    | --   |                 | 61.9                     | 61.9  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 7.21              | 28.84 | 123     | --   |                 | 123                      | 123   | 0.01           | 1.2                   | 1.2   | 1.8%                 | 1.8%  |
| OCDF                | 4.01              | 16.04 | 59.9    | J    |                 | 59.9                     | 30    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 19.2              | 76.8  | 731     | --   |                 | 731                      | 731   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-77              | 0.719             | 2.876 | 16      | B    | <5x*B           | 16                       | 8     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.871             | 3.484 | 1.01    | --   |                 | 1                        | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.13              | 4.52  | 624     | --   |                 | 624                      | 624   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-114             | 1.18              | 4.72  | 32.2    | --   |                 | 32.2                     | 32.2  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.19              | 4.76  | 1220    | CJ   |                 | 1220                     | 610   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 1.36              | 5.44  | 19.6    | --   |                 | 19.6                     | 19.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.695             | 2.78  | 3.27    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.292             | 1.168 | 189     | --   |                 | 189                      | 189   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.302             | 1.208 | 42.7    | --   |                 | 42.7                     | 42.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.297             | 1.188 | 66.6    | J    |                 | 66.6                     | 33.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.776             | 3.104 |         | E    |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.378             | 1.512 | 7.49    | --   |                 | 7.5                      | 7.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 68.3              | 67.9  | 0.6       | 0.6   | 68.9         | 68.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 263

PE Low Std PEL-F-11

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00134           | 0.0054 | 3.84    | NJ   |                 | 1.9                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.00329           | 0.0132 | 10.8    | --   |                 | 10.8                     | 10.8  | 1              | 10.8                  | 10.8  | 15.7%                | 15.8% |
| 1,2,3,7,8-PeCDF     | 0.0114            | 0.0456 | 106     | --   |                 | 106                      | 106   | 0.05           | 5.3                   | 5.3   | 7.7%                 | 7.8%  |
| 2,3,4,7,8-PeCDF     | 0.00749           | 0.03   | 27.4    | --   |                 | 27.4                     | 27.4  | 0.5            | 13.7                  | 13.7  | 19.9%                | 20.0% |
| 1,2,3,7,8-PeCDD     | 0.003             | 0.012  | 18      | --   |                 | 18                       | 18    | 1              | 18.0                  | 18.0  | 26.1%                | 26.3% |
| 1,2,3,4,7,8-HxCDF   | 0.0573            | 0.2292 | 27.9    | --   |                 | 27.9                     | 27.9  | 0.1            | 2.8                   | 2.8   | 4.1%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0488            | 0.1952 | 1.88    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0503            | 0.2012 | 65.7    | --   |                 | 65.7                     | 65.7  | 0.1            | 6.6                   | 6.6   | 9.5%                 | 9.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0655            | 0.262  | 62      | --   |                 | 62                       | 62    | 0.1            | 6.2                   | 6.2   | 9.0%                 | 9.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0015            | 0.006  | 9.96    | --   |                 | 10                       | 10    | 0.1            | 1.0                   | 1.0   | 1.5%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.00171           | 0.0068 | 13.7    | --   |                 | 13.7                     | 13.7  | 0.1            | 1.4                   | 1.4   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.00168           | 0.0067 | 2.35    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0324            | 0.1296 | 6.66    | --   |                 | 6.7                      | 6.7   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0687            | 0.2748 | 70.9    | --   |                 | 70.9                     | 70.9  | 0.01           | 0.7                   | 0.7   | 1.0%                 | 1.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0618            | 0.2472 | 99.4    | --   |                 | 99.4                     | 99.4  | 0.01           | 1.0                   | 1.0   | 1.4%                 | 1.5%  |
| OCDF                | 0.0145            | 0.058  | 25.9    | --   |                 | 25.9                     | 25.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.00527           | 0.0211 | 375     | --   |                 | 375                      | 375   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0538            | 0.2152 | 15.9    | B    | <5x*B           | 15.9                     | 8     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0578            | 0.2312 | 0.85    | B    | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.12              | 4.48   | 615     | CJ   |                 | 615                      | 307.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-114             | 1.12              | 4.48   | 30.1    | --   |                 | 30.1                     | 30.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.933             | 3.732  | 1190    | CJ   |                 | 1190                     | 595   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 1.05              | 4.2    | 22.5    | --   |                 | 22.5                     | 22.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.189             | 0.756  | 3.62    | J    |                 | 3.6                      | 1.8   | 0.1            | 0.4                   | 0.2   | 0.5%                 | 0.3%  |
| PCB-156             | 0.274             | 1.096  | 180     | --   |                 | 180                      | 180   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.289             | 1.156  | 46.8    | --   |                 | 46.8                     | 46.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.266             | 1.064  | 51.5    | --   |                 | 51.5                     | 51.5  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.49              | 5.96   | E       |      |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.0911            | 0.3644 | 7.72    | --   |                 | 7.7                      | 7.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 68.2              | 68.0  | 0.7       | 0.4   | 68.9         | 68.4  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 425 PE Low Std PC00266

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0394            | 0.1576 | 2.34    | NJ   |                 | 1.2                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0522            | 0.2088 | 6.95    | --   |                 | 7                        | 7     | 1              | 7.0                   | 7.0   | 15.7%                | 15.9% |
| 1,2,3,7,8-PeCDF     | 0.222             | 0.888  | 60.5    | --   |                 | 60.5                     | 60.5  | 0.05           | 3.0                   | 3.0   | 6.8%                 | 6.9%  |
| 2,3,4,7,8-PeCDF     | 0.186             | 0.744  | 17      | --   |                 | 17                       | 17    | 0.5            | 8.5                   | 8.5   | 19.1%                | 19.3% |
| 1,2,3,7,8-PeCDD     | 0.0632            | 0.2528 | 12      | --   |                 | 12                       | 12    | 1              | 12.0                  | 12.0  | 26.9%                | 27.2% |
| 1,2,3,4,7,8-HxCDF   | 0.128             | 0.512  | 18.5    | --   |                 | 18.5                     | 18.5  | 0.1            | 1.9                   | 1.9   | 4.2%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.116             | 0.464  | 1.17    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.161             | 0.644  | 45.7    | --   |                 | 45.7                     | 45.7  | 0.1            | 4.6                   | 4.6   | 10.3%                | 10.4% |
| 1,2,3,7,8,9-HxCDF   | 0.229             | 0.916  | 40.7    | --   |                 | 40.7                     | 40.7  | 0.1            | 4.1                   | 4.1   | 9.1%                 | 9.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0748            | 0.2992 | 5.7     | J    |                 | 5.7                      | 2.9   | 0.1            | 0.6                   | 0.3   | 1.3%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.0646            | 0.2584 | 9.65    | --   |                 | 9.7                      | 9.7   | 0.1            | 1.0                   | 1.0   | 2.2%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0617            | 0.2468 | 1.45    | J    |                 | 1.5                      | 0.7   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.106             | 0.424  | 4.16    | --   |                 | 4.2                      | 4.2   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.21              | 0.84   | 41.8    | --   |                 | 41.8                     | 41.8  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.158             | 0.632  | 61.4    | --   |                 | 61.4                     | 61.4  | 0.01           | 0.6                   | 0.6   | 1.4%                 | 1.4%  |
| OCDF                | 0.101             | 0.404  | 22.1    | --   |                 | 22.1                     | 22.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.119             | 0.476  | 237     | --   |                 | 237                      | 237   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.102             | 0.408  | 11.6    | --   |                 | 11.6                     | 11.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.123             | 0.492  | 0.641   | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.39              | 5.56   | 486     | --   |                 | 486                      | 486   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 1.45              | 5.8    | 25.1    | --   |                 | 25.1                     | 25.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.52              | 6.08   | 943     | --   |                 | 943                      | 943   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-123             | 1.73              | 6.92   | 15      | --   |                 | 15                       | 15    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.121             | 0.484  | 2.41    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.5%                 | 0.5%  |
| PCB-156             | 0.323             | 1.292  | 132     | --   |                 | 132                      | 132   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.334             | 1.336  | 28.6    | --   |                 | 28.6                     | 28.6  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.329             | 1.316  | 41.4    | --   |                 | 41.4                     | 41.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.972             | 3.888  | E       |      |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.094             | 0.376  | 5.24    | --   |                 | 5.2                      | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 44.1              | 43.6  | 0.4       | 0.4   | 44.5         | 44.0  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 466 | PE Low Std | PEL-F-15 |
|-----------|-----|------------|----------|
|-----------|-----|------------|----------|

| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0225            | 0.09   | 3.61    | NJ    |                 | 1.8                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.02              | 0.08   | 9.4     | --    |                 | 9.4                      | 9.4   | 1              | 9.4                   | 9.4   | 14.5%                | 14.6% |
| 1,2,3,7,8-PeCDF     | 0.0188            | 0.0752 | 91.5    | --    |                 | 91.5                     | 91.5  | 0.05           | 4.6                   | 4.6   | 7.1%                 | 7.1%  |
| 2,3,4,7,8-PeCDF     | 0.0159            | 0.0636 | 26.4    | --    |                 | 26.4                     | 26.4  | 0.5            | 13.2                  | 13.2  | 20.4%                | 20.4% |
| 1,2,3,7,8-PeCDD     | 0.0139            | 0.0556 | 17.4    | --    |                 | 17.4                     | 17.4  | 1              | 17.4                  | 17.4  | 26.8%                | 27.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0637            | 0.2548 | 25.9    | --    |                 | 25.9                     | 25.9  | 0.1            | 2.6                   | 2.6   | 4.0%                 | 4.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0534            | 0.2136 | 1.54    | --    |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.06              | 0.24   | 63.8    | --    |                 | 63.8                     | 63.8  | 0.1            | 6.4                   | 6.4   | 9.8%                 | 9.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.0835            | 0.334  | 59.2    | --    |                 | 59.2                     | 59.2  | 0.1            | 5.9                   | 5.9   | 9.1%                 | 9.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.0428            | 0.1712 | 8.85    | --    |                 | 8.9                      | 8.9   | 0.1            | 0.9                   | 0.9   | 1.4%                 | 1.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0394            | 0.1576 | 13.9    | --    |                 | 13.9                     | 13.9  | 0.1            | 1.4                   | 1.4   | 2.1%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0413            | 0.1652 | 2.88    | --    |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0312            | 0.1248 | 7.4     | --    |                 | 7.4                      | 7.4   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0541            | 0.2164 | 60.5    | --    |                 | 60.5                     | 60.5  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0468            | 0.1872 | 103     | --    |                 | 103                      | 103   | 0.01           | 1.0                   | 1.0   | 1.6%                 | 1.6%  |
| OCDF                | 0.0712            | 0.2848 | 23.4    | J     |                 | 23.4                     | 11.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0676            | 0.2704 | 724     | --    |                 | 724                      | 724   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-77              | 0.039             | 0.156  | 15.5    | B     | <5x*B           | 15.5                     | 7.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0493            | 0.1972 | 0.908   | B     | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.36              | 5.44   | 647     | --    |                 | 647                      | 647   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-114             | 1.42              | 5.68   | 31.5    | --    |                 | 31.5                     | 31.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.65              | 6.6    | 1310    | CJ    |                 | 1310                     | 655   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 1.88              | 7.52   | 21.1    | J     |                 | 21.1                     | 10.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.325             | 1.3    | 3.23    | --    |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.279             | 1.116  | 184     | --    |                 | 184                      | 184   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.288             | 1.152  | 40.7    | --    |                 | 40.7                     | 40.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.283             | 1.132  | 61.4    | --    |                 | 61.4                     | 61.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.32              | 5.28   | E       | <5x*B |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.15              | 0.6    | 7.43    | --    |                 | 7.4                      | 7.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 64.3              | 64.1  | 0.6       | 0.6   | 64.9         | 64.7  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 498 PE Low Std PEL-F-12

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.055             | 0.22   | 3.82    | NJ   |                 | 1.9                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.023             | 0.092  | 10.6    | --   |                 | 10.6                     | 10.6  | 1              | 10.6                  | 10.6  | 14.8%                | 14.9% |
| 1,2,3,7,8-PeCDF     | 0.0696            | 0.2784 | 107     | --   |                 | 107                      | 107   | 0.05           | 5.4                   | 5.4   | 7.5%                 | 7.5%  |
| 2,3,4,7,8-PeCDF     | 0.0558            | 0.2232 | 30.1    | --   |                 | 30.1                     | 30.1  | 0.5            | 15.1                  | 15.1  | 21.1%                | 21.2% |
| 1,2,3,7,8-PeCDD     | 0.0155            | 0.062  | 18.5    | --   |                 | 18.5                     | 18.5  | 1              | 18.5                  | 18.5  | 25.9%                | 26.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0407            | 0.1628 | 29.3    | --   |                 | 29.3                     | 29.3  | 0.1            | 2.9                   | 2.9   | 4.1%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0397            | 0.1588 | 1.85    | B    | <5x*B           | 1.9                      | 0.9   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0571            | 0.2284 | 72.3    | --   |                 | 72.3                     | 72.3  | 0.1            | 7.2                   | 7.2   | 10.1%                | 10.2% |
| 1,2,3,7,8,9-HxCDF   | 0.101             | 0.404  | 62.9    | --   |                 | 62.9                     | 62.9  | 0.1            | 6.3                   | 6.3   | 8.8%                 | 8.9%  |
| 1,2,3,4,7,8-HxCDD   | 0.0416            | 0.1664 | 10.4    | --   |                 | 10.4                     | 10.4  | 0.1            | 1.0                   | 1.0   | 1.5%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0349            | 0.1396 | 14.5    | --   |                 | 14.5                     | 14.5  | 0.1            | 1.5                   | 1.5   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0394            | 0.1576 | 1.65    | J    |                 | 1.7                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.2%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0994            | 0.3976 | 10.3    | --   |                 | 10.3                     | 10.3  | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.241             | 0.964  | 65.2    | --   |                 | 65.2                     | 65.2  | 0.01           | 0.7                   | 0.7   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0729            | 0.2916 | 98      | --   |                 | 98                       | 98    | 0.01           | 1.0                   | 1.0   | 1.4%                 | 1.4%  |
| OCDF                | 0.13              | 0.52   | 41      | --   |                 | 41                       | 41    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.129             | 0.516  | 485     | --   |                 | 485                      | 485   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0535            | 0.214  | 16.2    | --   |                 | 16.2                     | 16.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0605            | 0.242  | 0.859   | B    | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.96              | 7.84   | 636     | CJ   |                 | 636                      | 318   | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-114             | 2.04              | 8.16   | 32.4    | --   |                 | 32.4                     | 32.4  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 2.33              | 9.32   | 1330    | CJ   |                 | 1330                     | 665   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 2.65              | 10.6   | 18.7    | J    |                 | 18.7                     | 9.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.485             | 1.94   | 3.54    | --   |                 | 3.5                      | 3.5   | 0.1            | 0.4                   | 0.4   | 0.5%                 | 0.5%  |
| PCB-156             | 0.226             | 0.904  | 188     | --   |                 | 188                      | 188   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.234             | 0.936  | 42.2    | --   |                 | 42.2                     | 42.2  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.23              | 0.92   | 62.7    | --   |                 | 62.7                     | 62.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.07              | 4.28   |         | E    |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.119             | 0.476  | 7.85    | --   |                 | 7.9                      | 7.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 70.9              | 70.5  | 0.7       | 0.6   | 71.6         | 71.1  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 527 PE Low Std PEL-M-14

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.108             | 0.432 | 6.57    | NJ   |                 | 3.3                      |       | 0.1            | 0.3                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.202             | 0.808 | 52.2    | --   |                 | 52.2                     | 52.2  | 1              | 52.2                  | 52.2  | 40.1%                | 41.5% |
| 1,2,3,7,8-PeCDF     | 0.313             | 1.252 | 38.1    | --   |                 | 38.1                     | 38.1  | 0.05           | 1.9                   | 1.9   | 1.5%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.225             | 0.9   | 0.82    | --   |                 | 0.8                      | 0.4   | 0.5            | 0.4                   | 0.2   | 0.3%                 | 0.2%  |
| 1,2,3,7,8-PeCDD     | 0.321             | 1.284 | 47.4    | --   |                 | 47.4                     | 47.4  | 1              | 47.4                  | 47.4  | 36.4%                | 37.6% |
| 1,2,3,4,7,8-HxCDF   | 0.714             | 2.856 | 41.6    | I    |                 | 41.6                     | 41.6  | 0.1            | 4.2                   | 4.2   | 3.2%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.632             | 2.528 | 2.78    | I    |                 | 2.8                      | 2.8   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 1.37              | 5.48  | 35.8    | --   |                 | 35.8                     | 35.8  | 0.1            | 3.6                   | 3.6   | 2.7%                 | 2.8%  |
| 1,2,3,7,8,9-HxCDF   | 1.384             | 5.536 | 9.4     | --   |                 | 9.4                      | 9.4   | 0.1            | 0.9                   | 0.9   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.584             | 2.336 | 37      | --   |                 | 37                       | 37    | 0.1            | 3.7                   | 3.7   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 3.54              | 14.16 |         | EI   |                 | 1.8                      |       | 0.1            | 0.2                   |       | 0.1%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.485             | 1.94  | 30.3    | IJ   |                 | 30.3                     | 15.2  | 0.1            | 3.0                   | 1.5   | 2.3%                 | 1.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.606             | 2.424 | 48.2    | I    |                 | 48.2                     | 48.2  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 1.5               | 6     | 28.3    | --   |                 | 28.3                     | 28.3  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 1.3               | 5.2   | 44.9    | --   |                 | 44.9                     | 44.9  | 0.01           | 0.4                   | 0.4   | 0.3%                 | 0.4%  |
| OCDF                | 1                 | 4     | 210     | J    |                 | 210                      | 105   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 1.85              | 7.4   | 356     | --   |                 | 356                      | 356   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 2.5               | 10    | 210     | --   |                 | 210                      | 210   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 3.35              | 13.4  | 8.81    | --   |                 | 8.8                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.97              | 23.88 | 10400   | CJ   |                 | 10400                    | 5200  | 0.0001         | 1.0                   | 0.5   | 0.8%                 | 0.4%  |
| PCB-114             | 6.24              | 24.96 | 667     | --   |                 | 667                      | 667   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-118             | 7.39              | 29.56 | 16500   | JS   |                 | 16500                    | 8250  | 0.0001         | 1.7                   | 0.8   | 1.3%                 | 0.7%  |
| PCB-123             | 8.4               | 33.6  | 432     | --   |                 | 432                      | 432   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 5.44              | 21.76 | 58.9    | --   |                 | 58.9                     | 58.9  | 0.1            | 5.9                   | 5.9   | 4.5%                 | 4.7%  |
| PCB-156             | 0.609             | 2.436 | 3130    | CJ   |                 | 3130                     | 1565  | 0.0005         | 1.6                   | 0.8   | 1.2%                 | 0.6%  |
| PCB-157             | 0.629             | 2.516 | 702     | --   |                 | 702                      | 702   | 0.0005         | 0.4                   | 0.4   | 0.3%                 | 0.3%  |
| PCB-167             | 0.619             | 2.476 | 1200    | CJ   |                 | 1200                     | 600   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 8.21              | 32.84 |         | E    |                 | 4.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.485             | 1.94  | 116     | --   |                 | 116                      | 116   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 119.3             | 117.1 | 10.9      | 8.7   | 130.2        | 125.8 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 757               | PE Low Std | PEL-F-7 | MRI lost sample; replaced by sample 757-R. |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|------------|---------|--|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |            | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL         | Conc    | Flag                                       |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 2,3,7,8-TCDD        |                   |            |         | --   |                 |                          |       | 1        |                       |       |                      |       |
| 1,2,3,7,8-PeCDF     |                   |            |         | --   |                 |                          |       | 0.05     |                       |       |                      |       |
| 2,3,4,7,8-PeCDF     |                   |            |         | --   |                 |                          |       | 0.5      |                       |       |                      |       |
| 1,2,3,7,8-PeCDD     |                   |            |         | --   |                 |                          |       | 1        |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDF   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDF   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 2,3,4,6,7,8-HxCDF   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDF   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDD   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,6,7,8-HxCDD   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,7,8,9-HxCDD   |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDF |                   |            |         | --   |                 |                          |       | 0.01     |                       |       |                      |       |
| 1,2,3,4,7,8,9-HpCDF |                   |            |         | --   |                 |                          |       | 0.01     |                       |       |                      |       |
| 1,2,3,4,6,7,8-HpCDD |                   |            |         | --   |                 |                          |       | 0.01     |                       |       |                      |       |
| OCDF                |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| OCDD                |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-77              |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-81              |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-105             |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-114             |                   |            |         | --   |                 |                          |       | 0.0005   |                       |       |                      |       |
| PCB-118             |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-123             |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |
| PCB-126             |                   |            |         | --   |                 |                          |       | 0.1      |                       |       |                      |       |
| PCB-156             |                   |            |         | --   |                 |                          |       | 0.0005   |                       |       |                      |       |
| PCB-157             |                   |            |         | --   |                 |                          |       | 0.0005   |                       |       |                      |       |
| PCB-167             |                   |            |         | --   |                 |                          |       | 0.00001  |                       |       |                      |       |
| PCB-169             |                   |            |         | --   |                 |                          |       | 0.01     |                       |       |                      |       |
| PCB-189             |                   |            |         | --   |                 |                          |       | 0.0001   |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |            | PCBs Only |       | All Analytes |       |
|-------------------|------------|-----------|-------|--------------|-------|
| Full              | Quant      | Full      | Quant | Full         | Quant |
| [REDACTED]        | [REDACTED] |           |       |              |       |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 757-R             | PE Low Std | PEL-F-7 | Replacement sample for (757) which was lost by MRI; EPA batch C, sent w/ off-post |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|------------|---------|---|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |            | Results |   | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL         | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0443            | 0.1772     | 3.91    | NJ  |                 | 2                        |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0228            | 0.0912     | 11.8    | --  |                 | 11.8                     | 11.8  | 1              | 11.8                  | 11.8  | 16.1%                | 16.2% |
| 1,2,3,7,8-PeCDF     | 0.0312            | 0.1248     | 113     | --  |                 | 113                      | 113   | 0.05           | 5.7                   | 5.7   | 7.7%                 | 7.8%  |
| 2,3,4,7,8-PeCDF     | 0.0236            | 0.0944     | 30.1    | --  |                 | 30.1                     | 30.1  | 0.5            | 15.1                  | 15.1  | 20.6%                | 20.7% |
| 1,2,3,7,8-PeCDD     | 0.0151            | 0.0604     | 18      | --  |                 | 18                       | 18    | 1              | 18.0                  | 18.0  | 24.6%                | 24.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0696            | 0.2784     | 30.1    | --  |                 | 30.1                     | 30.1  | 0.1            | 3.0                   | 3.0   | 4.1%                 | 4.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0622            | 0.2488     | 1.66    | B   | <5x*B           | 1.7                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.2%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0843            | 0.3372     | 72.3    | --  |                 | 72.3                     | 72.3  | 0.1            | 7.2                   | 7.2   | 9.9%                 | 9.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.126             | 0.504      | 68.6    | --  |                 | 68.6                     | 68.6  | 0.1            | 6.9                   | 6.9   | 9.4%                 | 9.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0219            | 0.0876     | 10.7    | --  |                 | 10.7                     | 10.7  | 0.1            | 1.1                   | 1.1   | 1.5%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0176            | 0.0704     | 14.9    | --  |                 | 14.9                     | 14.9  | 0.1            | 1.5                   | 1.5   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0203            | 0.0812     | 2.15    | J   |                 | 2.2                      | 1.1   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.179             | 0.716      | 7.94    | --  |                 | 7.9                      | 7.9   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.348             | 1.392      | 66.7    | --  |                 | 66.7                     | 66.7  | 0.01           | 0.7                   | 0.7   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0942            | 0.3768     | 98.3    | --  |                 | 98.3                     | 98.3  | 0.01           | 1.0                   | 1.0   | 1.3%                 | 1.4%  |
| OCDF                | 0.0654            | 0.2616     | 31.7    | --  |                 | 31.7                     | 31.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0723            | 0.2892     | 397     | --  |                 | 397                      | 397   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0713            | 0.2852     | 16.5    | --  |                 | 16.5                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0868            | 0.3472     | 0.958   | B   | <5x*B           | 1                        | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.63              | 6.52       | 700     | CJ  |                 | 700                      | 350   | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-114             | 1.7               | 6.8        | 36.8    | --  |                 | 36.8                     | 36.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.95              | 7.8        | 1390    | CJ  |                 | 1390                     | 695   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 2.21              | 8.84       | 23.2    | J   |                 | 23.2                     | 11.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.287             | 1.148      | 3.51    | --  |                 | 3.5                      | 3.5   | 0.1            | 0.4                   | 0.4   | 0.5%                 | 0.5%  |
| PCB-156             | 0.254             | 1.016      | 197     | --  |                 | 197                      | 197   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.263             | 1.052      | 43.3    | --  |                 | 43.3                     | 43.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.258             | 1.032      | 67.4    | --  |                 | 67.4                     | 67.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.54              | 6.16       |         | E   |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.17              | 0.68       | 8.51    | --  |                 | 8.5                      | 8.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 72.7              | 72.3  | 0.7       | 0.6   | 73.4         | 72.9  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 794 | PE Low Std | PEL-F-6 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0295            | 0.118  | 3.33    | NJ   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0216            | 0.0864 | 10.5    | --   |                 | 10.5                     | 10.5  | 1              | 10.5                  | 10.5  | 16.1%                | 16.2% |
| 1,2,3,7,8-PeCDF     | 0.0421            | 0.1684 | 95.9    | --   |                 | 95.9                     | 95.9  | 0.05           | 4.8                   | 4.8   | 7.3%                 | 7.4%  |
| 2,3,4,7,8-PeCDF     | 0.0397            | 0.1588 | 26.6    | --   |                 | 26.6                     | 26.6  | 0.5            | 13.3                  | 13.3  | 20.3%                | 20.6% |
| 1,2,3,7,8-PeCDD     | 0.0289            | 0.1156 | 17.7    | --   |                 | 17.7                     | 17.7  | 1              | 17.7                  | 17.7  | 27.1%                | 27.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0165            | 0.066  | 27.1    | --   |                 | 27.1                     | 27.1  | 0.1            | 2.7                   | 2.7   | 4.1%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0141            | 0.0564 | 1.97    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0186            | 0.0744 | 54.6    | --   |                 | 54.6                     | 54.6  | 0.1            | 5.5                   | 5.5   | 8.4%                 | 8.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.0189            | 0.0756 | 58.1    | --   |                 | 58.1                     | 58.1  | 0.1            | 5.8                   | 5.8   | 8.9%                 | 9.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0233            | 0.0932 | 8.73    | --   |                 | 8.7                      | 8.7   | 0.1            | 0.9                   | 0.9   | 1.3%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0195            | 0.078  | 13.2    | --   |                 | 13.2                     | 13.2  | 0.1            | 1.3                   | 1.3   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0233            | 0.0932 | 2.78    | J    |                 | 2.8                      | 1.4   | 0.1            | 0.3                   | 0.1   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 8.47              | 33.88  |         | D    | <5x*B           | 2.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0399            | 0.1596 | 55.2    | --   |                 | 55.2                     | 55.2  | 0.01           | 0.6                   | 0.6   | 0.8%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0399            | 0.1596 | 85.8    | --   |                 | 85.8                     | 85.8  | 0.01           | 0.9                   | 0.9   | 1.3%                 | 1.3%  |
| OCDF                | 0.0649            | 0.2596 | 22.8    | --   |                 | 22.8                     | 22.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0638            | 0.2552 | 343     | --   |                 | 343                      | 343   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.164             | 0.656  | 17.4    | B    | <5x*B           | 17.4                     | 8.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.14              | 0.56   | 0.729   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.82              | 15.28  | 831     | CJ   |                 | 831                      | 415.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 3.88              | 15.52  | 40.3    | --   |                 | 40.3                     | 40.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 3.26              | 13.04  | 1610    | CJ   |                 | 1610                     | 805   | 0.0001         | 0.2                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 3.8               | 15.2   | 25.9    | --   |                 | 25.9                     | 25.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.18              | 4.72   | 3.67    | --   |                 | 3.7                      | 1.8   | 0.1            | 0.4                   | 0.2   | 0.6%                 | 0.3%  |
| PCB-156             | 0.268             | 1.072  | 220     | I    |                 | 220                      | 220   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-157             | 0.279             | 1.116  | 50.3    | I    |                 | 50.3                     | 50.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.256             | 1.024  | 73.4    | IJ   |                 | 73.4                     | 36.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.07              | 4.28   |         | EI   | <5x*B           | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.0784            | 0.3136 | 9.57    | --   |                 | 9.6                      | 9.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 64.7              | 64.3  | 0.8       | 0.4   | 65.5         | 64.7  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 936               | PE Low Std | PEL-F-9 |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0456            | 0.1824     | 3.47    | NJ   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.081             | 0.324      | 11.6    | --   |                 | 11.6                     | 11.6  | 1              | 11.6                  | 11.6  | 17.4%                | 17.5% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.308             | 1.232      | 89.3    | --   |                 | 89.3                     | 89.3  | 0.05           | 4.5                   | 4.5   | 6.7%                 | 6.7%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.268             | 1.072      | 25.2    | --   |                 | 25.2                     | 25.2  | 0.5            | 12.6                  | 12.6  | 18.9%                | 19.0% |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0604            | 0.2416     | 17.7    | --   |                 | 17.7                     | 17.7  | 1              | 17.7                  | 17.7  | 26.6%                | 26.7% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.18              | 0.72       | 26.2    | --   |                 | 26.2                     | 26.2  | 0.1            | 2.6                   | 2.6   | 3.9%                 | 4.0%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.159             | 0.636      | 2.55    | --   |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.183             | 0.732      | 62.9    | --   |                 | 62.9                     | 62.9  | 0.1            | 6.3                   | 6.3   | 9.4%                 | 9.5%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.212             | 0.848      | 58.9    | --   |                 | 58.9                     | 58.9  | 0.1            | 5.9                   | 5.9   | 8.8%                 | 8.9%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0402            | 0.1608     | 9.68    | --   |                 | 9.7                      | 9.7   | 0.1            | 1.0                   | 1.0   | 1.5%                 | 1.5%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0329            | 0.1316     | 13.8    | --   |                 | 13.8                     | 13.8  | 0.1            | 1.4                   | 1.4   | 2.1%                 | 2.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.032             | 0.128      | 2.73    | --   |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0785            | 0.314      | 7.27    | --   |                 | 7.3                      | 7.3   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.106             | 0.424      | 59      | --   |                 | 59                       | 59    | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.133             | 0.532      | 98.1    | --   |                 | 98.1                     | 98.1  | 0.01           | 1.0                   | 1.0   | 1.5%                 | 1.5%  |      |       |      |
| OCDF                | 0.0403            | 0.1612     | 28.4    | --   |                 | 28.4                     | 28.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.0476            | 0.1904     | 535     | --   |                 | 535                      | 535   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-77              | 0.129             | 0.516      | 15.6    | B    | <5x*B           | 15.6                     | 7.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 0.156             | 0.624      | 0.854   | B    | <5x*B           | 0.9                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-105             | 1.48              | 5.92       | 626     | --   |                 | 626                      | 626   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-114             | 1.47              | 5.88       | 48      | --   |                 | 48                       | 48    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-118             | 1.17              | 4.68       | 1230    | CJ   |                 | 1230                     | 615   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |
| PCB-123             | 1.31              | 5.24       | --      |      |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 0.158             | 0.632      | 3.94    | J    |                 | 3.9                      | 2     | 0.1            | 0.4                   | 0.2   | 0.6%                 | 0.3%  |      |       |      |
| PCB-156             | 0.488             | 1.952      | 169     | --   |                 | 169                      | 169   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |
| PCB-157             | 0.514             | 2.056      | 40.7    | --   |                 | 40.7                     | 40.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-167             | 0.474             | 1.896      | 66.4    | --   |                 | 66.4                     | 66.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 1.64              | 6.56       | E       |      |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 6.87              | 27.48      | E       |      |                 | 3.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 66.2              | 66.0  | 0.7       | 0.5   | 66.9         | 66.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 943 PE Low Std PEL-F-10

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0252            | 0.1008 | 3.39    | NJ   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0112            | 0.0448 | 10.4    | --   |                 | 10.4                     | 10.4  | 1              | 10.4                  | 10.4  | 15.3%                | 15.4% |
| 1,2,3,7,8-PeCDF     | 0.0285            | 0.114  | 97.1    | --   |                 | 97.1                     | 97.1  | 0.05           | 4.9                   | 4.9   | 7.2%                 | 7.2%  |
| 2,3,4,7,8-PeCDF     | 0.0216            | 0.0864 | 26.4    | --   |                 | 26.4                     | 26.4  | 0.5            | 13.2                  | 13.2  | 19.4%                | 19.5% |
| 1,2,3,7,8-PeCDD     | 0.00115           | 0.0046 | 18.7    | --   |                 | 18.7                     | 18.7  | 1              | 18.7                  | 18.7  | 27.6%                | 27.7% |
| 1,2,3,4,7,8-HxCDF   | 0.0528            | 0.2112 | 28.5    | --   |                 | 28.5                     | 28.5  | 0.1            | 2.9                   | 2.9   | 4.2%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0473            | 0.1892 | 1.24    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0582            | 0.2328 | 64.7    | --   |                 | 64.7                     | 64.7  | 0.1            | 6.5                   | 6.5   | 9.5%                 | 9.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0836            | 0.3344 | 64.2    | --   |                 | 64.2                     | 64.2  | 0.1            | 6.4                   | 6.4   | 9.5%                 | 9.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0245            | 0.098  | 8.81    | --   |                 | 8.8                      | 8.8   | 0.1            | 0.9                   | 0.9   | 1.3%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0228            | 0.0912 | 13.3    | --   |                 | 13.3                     | 13.3  | 0.1            | 1.3                   | 1.3   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0244            | 0.0976 | 2.24    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDF | 11                | 44     |         | D    | <5x*B           | 2.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.105             | 0.42   | 60.7    | --   |                 | 60.7                     | 60.7  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0239            | 0.0956 | 90      | --   |                 | 90                       | 90    | 0.01           | 0.9                   | 0.9   | 1.3%                 | 1.3%  |
| OCDF                | 0.0329            | 0.1316 | 30.7    | --   |                 | 30.7                     | 30.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0459            | 0.1836 | 406     | --   |                 | 406                      | 406   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0807            | 0.3228 | 16.3    | B    | <5x*B           | 16.3                     | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0778            | 0.3112 | 0.828   | B    | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.57              | 6.28   | 701     | CJ   |                 | 701                      | 350.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 1.56              | 6.24   | 33.3    | --   |                 | 33.3                     | 33.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.33              | 5.32   | 1410    | CJ   |                 | 1410                     | 705   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 1.49              | 5.96   |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.458             | 1.832  | 3.18    | --   |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.391             | 1.564  | 203     | --   |                 | 203                      | 203   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| PCB-157             | 0.412             | 1.648  | 47.1    | --   |                 | 47.1                     | 47.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.379             | 1.516  | 73.6    | --   |                 | 73.6                     | 73.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.05              | 4.2    |         | E    |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.354             | 1.416  | 9.59    | --   |                 | 9.6                      | 9.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 67.2              | 67.0  | 0.6       | 0.5   | 67.8         | 67.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 989 PE Low Std PC00281

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.018             | 0.072  | 2.34    | NJ   |                 | 1.2                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.00585           | 0.0234 | 6.75    | --   |                 | 6.8                      | 6.8   | 1              | 6.8                   | 6.8   | 14.8%                | 14.9% |
| 1,2,3,7,8-PeCDF     | 0.0174            | 0.0696 | 62.5    | --   |                 | 62.5                     | 62.5  | 0.05           | 3.1                   | 3.1   | 6.8%                 | 6.8%  |
| 2,3,4,7,8-PeCDF     | 0.0153            | 0.0612 | 18.1    | --   |                 | 18.1                     | 18.1  | 0.5            | 9.1                   | 9.1   | 19.7%                | 19.8% |
| 1,2,3,7,8-PeCDD     | 0.00222           | 0.0089 | 12.3    | --   |                 | 12.3                     | 12.3  | 1              | 12.3                  | 12.3  | 26.8%                | 26.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0355            | 0.142  | 18.1    | --   |                 | 18.1                     | 18.1  | 0.1            | 1.8                   | 1.8   | 3.9%                 | 4.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0303            | 0.1212 | 1.55    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.037             | 0.148  | 45.7    | --   |                 | 45.7                     | 45.7  | 0.1            | 4.6                   | 4.6   | 10.0%                | 10.0% |
| 1,2,3,7,8,9-HxCDF   | 0.0451            | 0.1804 | 43.9    | --   |                 | 43.9                     | 43.9  | 0.1            | 4.4                   | 4.4   | 9.6%                 | 9.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0356            | 0.1424 | 8.05    | --   |                 | 8.1                      | 8.1   | 0.1            | 0.8                   | 0.8   | 1.8%                 | 1.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0435            | 0.174  | 9.85    | --   |                 | 9.9                      | 9.9   | 0.1            | 1.0                   | 1.0   | 2.2%                 | 2.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.04              | 0.16   | 1.46    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0358            | 0.1432 | 4.03    | --   |                 | 4                        | 4     | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0494            | 0.1976 | 41.6    | --   |                 | 41.6                     | 41.6  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0374            | 0.1496 | 61.6    | --   |                 | 61.6                     | 61.6  | 0.01           | 0.6                   | 0.6   | 1.3%                 | 1.3%  |
| OCDF                | 0.0327            | 0.1308 | 20.1    | --   |                 | 20.1                     | 20.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0344            | 0.1376 | 245     | --   |                 | 245                      | 245   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.0346            | 0.1384 | 12.8    | --   |                 | 12.8                     | 12.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0414            | 0.1656 | 0.803   | B    | <5x*B           | 0.8                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.34              | 5.36   | 502     | --   |                 | 502                      | 502   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-114             | 1.4               | 5.6    | 25.1    | --   |                 | 25.1                     | 25.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 1.34              | 5.36   | 987     | --   |                 | 987                      | 987   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-123             | 1.52              | 6.08   | 14.9    | J    |                 | 14.9                     | 7.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.35              | 1.4    | 2.46    | --   |                 | 2.5                      | 2.5   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.128             | 0.512  | 121     | --   |                 | 121                      | 121   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.133             | 0.532  | 27.1    | --   |                 | 27.1                     | 27.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.131             | 0.524  | 42.9    | --   |                 | 42.9                     | 42.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.52              | 6.08   | E       |      |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.107             | 0.428  | 4.73    | --   |                 | 4.7                      | 4.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 45.4              | 45.3  | 0.6       | 0.6   | 46.0         | 45.9  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 992 | PE Low Std | PEL-F-8 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0317            | 0.1268 | 3.3     | NJ   |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0313            | 0.1252 | 9.52    | --   |                 | 9.5                      | 9.5   | 1              | 9.5                   | 9.5   | 14.7%                | 14.7% |
| 1,2,3,7,8-PeCDF     | 0.206             | 0.824  | 90.3    | --   |                 | 90.3                     | 90.3  | 0.05           | 4.5                   | 4.5   | 7.0%                 | 7.0%  |
| 2,3,4,7,8-PeCDF     | 0.166             | 0.664  | 25.3    | --   |                 | 25.3                     | 25.3  | 0.5            | 12.7                  | 12.7  | 19.5%                | 19.6% |
| 1,2,3,7,8-PeCDD     | 0.0594            | 0.2376 | 17.8    | --   |                 | 17.8                     | 17.8  | 1              | 17.8                  | 17.8  | 27.5%                | 27.6% |
| 1,2,3,4,7,8-HxCDF   | 0.128             | 0.512  | 27      | --   |                 | 27                       | 27    | 0.1            | 2.7                   | 2.7   | 4.2%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 1.82              | 7.28   |         | --   |                 | 0.9                      |       | 0.1            | 0.1                   |       | 0.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.139             | 0.556  | 65      | --   |                 | 65                       | 65    | 0.1            | 6.5                   | 6.5   | 10.0%                | 10.1% |
| 1,2,3,7,8,9-HxCDF   | 0.149             | 0.596  | 60.7    | --   |                 | 60.7                     | 60.7  | 0.1            | 6.1                   | 6.1   | 9.4%                 | 9.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0558            | 0.2232 | 8.08    | --   |                 | 8.1                      | 8.1   | 0.1            | 0.8                   | 0.8   | 1.2%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0486            | 0.1944 | 14.9    | --   |                 | 14.9                     | 14.9  | 0.1            | 1.5                   | 1.5   | 2.3%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0465            | 0.186  | 2.46    | --   |                 | 2.5                      | 2.5   | 0.1            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDF | 7.58              | 30.32  |         | DJ   | <5x*B           | 1.9                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.111             | 0.444  | 59.8    | --   |                 | 59.8                     | 59.8  | 0.01           | 0.6                   | 0.6   | 0.9%                 | 0.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.106             | 0.424  | 94.3    | --   |                 | 94.3                     | 94.3  | 0.01           | 0.9                   | 0.9   | 1.5%                 | 1.5%  |
| OCDF                | 0.0337            | 0.1348 | 29.7    | --   |                 | 29.7                     | 29.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0355            | 0.142  | 393     | --   |                 | 393                      | 393   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.314             | 1.256  | 15.1    | B    | <5x*B           | 15.1                     | 7.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.314             | 1.256  | 0.747   | --   |                 | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.73              | 22.92  | 653     | --   |                 | 653                      | 653   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-114             | 5.7               | 22.8   | 36.5    | --   |                 | 36.5                     | 36.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 4.56              | 18.24  | 1310    | CJ   |                 | 1310                     | 655   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 5.13              | 20.52  |         | --   |                 | 2.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.251             | 1.004  | 3.18    | --   |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.355             | 1.42   | 199     | --   |                 | 199                      | 199   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-157             | 0.374             | 1.496  | 48.5    | --   |                 | 48.5                     | 48.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.345             | 1.38   | 78.7    | J    |                 | 78.7                     | 39.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.32              | 5.28   |         | E    |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.302             | 1.208  | 11.6    | I    |                 | 11.6                     | 11.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 64.2              | 63.9  | 0.6       | 0.6   | 64.8         | 64.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 994 | PE Low Std | PEL F-5 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.142             | 0.568  | 3.5     | NJ    |                 | 1.8                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.00537           | 0.0215 | 9.59    | --    |                 | 9.6                      | 9.6   | 1              | 9.6                   | 9.6   | 14.2%                | 14.3% |
| 1,2,3,7,8-PeCDF     | 0.179             | 0.716  | 95.6    | --    |                 | 95.6                     | 95.6  | 0.05           | 4.8                   | 4.8   | 7.1%                 | 7.1%  |
| 2,3,4,7,8-PeCDF     | 0.149             | 0.596  | 28      | --    |                 | 28                       | 28    | 0.5            | 14.0                  | 14.0  | 20.7%                | 20.8% |
| 1,2,3,7,8-PeCDD     | 0.116             | 0.464  | 18.3    | --    |                 | 18.3                     | 18.3  | 1              | 18.3                  | 18.3  | 27.1%                | 27.2% |
| 1,2,3,4,7,8-HxCDF   | 0.159             | 0.636  | 28.6    | --    |                 | 28.6                     | 28.6  | 0.1            | 2.9                   | 2.9   | 4.2%                 | 4.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.15              | 0.6    | 2.19    | --    |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.13              | 0.52   | 64.7    | --    |                 | 64.7                     | 64.7  | 0.1            | 6.5                   | 6.5   | 9.6%                 | 9.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.285             | 1.14   | 64.9    | --    |                 | 64.9                     | 64.9  | 0.1            | 6.5                   | 6.5   | 9.6%                 | 9.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.048             | 0.192  | 8.76    | --    |                 | 8.8                      | 8.8   | 0.1            | 0.9                   | 0.9   | 1.3%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.0555            | 0.222  | 13.5    | --    |                 | 13.5                     | 13.5  | 0.1            | 1.4                   | 1.4   | 2.0%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0565            | 0.226  | 1.67    | J     |                 | 1.7                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.091             | 0.364  | 8.2     | I     |                 | 8.2                      | 8.2   | 0.01           | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.159             | 0.636  | 56.5    | --    |                 | 56.5                     | 56.5  | 0.01           | 0.6                   | 0.6   | 0.8%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.583             | 2.332  | 92.9    | --    |                 | 92.9                     | 92.9  | 0.01           | 0.9                   | 0.9   | 1.4%                 | 1.4%  |
| OCDF                | 0.0778            | 0.3112 | 30      | --    |                 | 30                       | 30    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.065             | 0.26   | 383     | --    |                 | 383                      | 383   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.199             | 0.796  | 18      | B     | <5x*B           | 18                       | 9     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.165             | 0.66   | 0.912   | B     | <5x*B           | 0.9                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.689             | 2.756  | 581     | CJ    |                 | 581                      | 290.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-114             | 0.68              | 2.72   | 26.1    | --    |                 | 26.1                     | 26.1  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.584             | 2.336  | 1090    | CJ    |                 | 1090                     | 545   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-123             | 0.663             | 2.652  | 24.6    | --    |                 | 24.6                     | 24.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.095             | 0.38   | 3.42    | --    |                 | 3.4                      | 3.4   | 0.1            | 0.3                   | 0.3   | 0.5%                 | 0.5%  |
| PCB-156             | 0.0944            | 0.3776 | 177     | --    |                 | 177                      | 177   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-157             | 0.0951            | 0.3804 | 38.6    | --    |                 | 38.6                     | 38.6  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 0.0902            | 0.3608 | 62.7    | J     |                 | 62.7                     | 31.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.21              | 4.84   | E       | <5x*B |                 | 0.6                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.063             | 0.252  | 7.86    | --    |                 | 7.9                      | 7.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 67.1              | 66.8  | 0.6       | 0.5   | 67.7         | 67.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00268           | PE Low Std | PEL     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0367            | 0.1468     | 2.86    | NJ   |                 | 1.4                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0163            | 0.0652     | 8.14    | --   |                 | 8.1                      | 8.1   | 1              | 8.1                   | 8.1   | 16.1%                | 16.3% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0831            | 0.3324     | 73      | --   |                 | 73                       | 73    | 0.05           | 3.7                   | 3.7   | 7.3%                 | 7.3%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.038             | 0.152      | 18.9    | --   |                 | 18.9                     | 18.9  | 0.5            | 9.5                   | 9.5   | 18.8%                | 19.0% |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0239            | 0.0956     | 13.5    | --   |                 | 13.5                     | 13.5  | 1              | 13.5                  | 13.5  | 26.9%                | 27.1% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0517            | 0.2068     | 19.4    | --   |                 | 19.4                     | 19.4  | 0.1            | 1.9                   | 1.9   | 3.9%                 | 3.9%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0581            | 0.2324     | 1.45    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0769            | 0.3076     | 50.7    | --   |                 | 50.7                     | 50.7  | 0.1            | 5.1                   | 5.1   | 10.1%                | 10.2% |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0969            | 0.3876     | 49.1    | --   |                 | 49.1                     | 49.1  | 0.1            | 4.9                   | 4.9   | 9.8%                 | 9.9%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0233            | 0.0932     | 6.02    | --   |                 | 6                        | 6     | 0.1            | 0.6                   | 0.6   | 1.2%                 | 1.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0189            | 0.0756     | 10      | --   |                 | 10                       | 10    | 0.1            | 1.0                   | 1.0   | 2.0%                 | 2.0%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0216            | 0.0864     | 1.57    | J    |                 | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.3%                 | 0.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0461            | 0.1844     | 4.08    | --   |                 | 4.1                      | 4.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0612            | 0.2448     | 38.4    | --   |                 | 38.4                     | 38.4  | 0.01           | 0.4                   | 0.4   | 0.8%                 | 0.8%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0743            | 0.2972     | 57      | --   |                 | 57                       | 57    | 0.01           | 0.6                   | 0.6   | 1.1%                 | 1.1%  |      |       |      |       |
| OCDF                | 0.029             | 0.116      | 18.6    | J    |                 | 18.6                     | 9.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.0391            | 0.1564     | 230     | --   |                 | 230                      | 230   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-77              | 0.103             | 0.412      | 16.6    | B    | <5x*B           | 16.6                     | 8.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 0.0973            | 0.3892     | 1.02    | B    | <5x*B           | 1                        | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-105             | 0.355             | 1.42       | 612     | CJ   |                 | 612                      | 306   | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-114             | 0.371             | 1.484      | 29.5    | --   |                 | 29.5                     | 29.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-118             | 0.422             | 1.688      | 1220    | CJ   |                 | 1220                     | 610   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |       |
| PCB-123             | 0.479             | 1.916      | 18.2    | --   |                 | 18.2                     | 18.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-126             | 0.279             | 1.116      | 2.81    | J    |                 | 2.8                      | 1.4   | 0.1            | 0.3                   | 0.1   | 0.6%                 | 0.3%  |      |       |      |       |
| PCB-156             | 0.46              | 1.84       | 166     | --   |                 | 166                      | 166   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |
| PCB-157             | 0.476             | 1.904      | 31.4    | --   |                 | 31.4                     | 31.4  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-167             | 0.468             | 1.872      | 57.7    | --   |                 | 57.7                     | 57.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 0.901             | 3.604      | E       |      |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.176             | 0.704      | 6.46    | --   |                 | 6.5                      | 6.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 49.8              | 49.6  | 0.6       | 0.3   | 50.4         | 49.9  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00353           | PE Low Std | PEL     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.152             | 0.608      | 1.37    | NJ   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0183            | 0.0732     | 4.07    | --   |                 | 4.1                      | 4.1   | 1              | 4.1                   | 4.1   | 15.5%                | 15.6% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.105             | 0.42       | 35.6    | --   |                 | 35.6                     | 35.6  | 0.05           | 1.8                   | 1.8   | 6.7%                 | 6.8%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0976            | 0.3904     | 10      | --   |                 | 10                       | 10    | 0.5            | 5.0                   | 5.0   | 18.9%                | 19.1% |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.0303            | 0.1212     | 7.01    | --   |                 | 7                        | 7     | 1              | 7.0                   | 7.0   | 26.4%                | 26.7% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0683            | 0.2732     | 11.2    | --   |                 | 11.2                     | 11.2  | 0.1            | 1.1                   | 1.1   | 4.2%                 | 4.3%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0593            | 0.2372     | 0.69    | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0772            | 0.3088     | 27      | --   |                 | 27                       | 27    | 0.1            | 2.7                   | 2.7   | 10.2%                | 10.3% |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.106             | 0.424      | 25.4    | --   |                 | 25.4                     | 25.4  | 0.1            | 2.5                   | 2.5   | 9.6%                 | 9.7%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0093            | 0.0372     | 3.73    | --   |                 | 3.7                      | 3.7   | 0.1            | 0.4                   | 0.4   | 1.4%                 | 1.4%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.00847           | 0.0339     | 5.4     | --   |                 | 5.4                      | 5.4   | 0.1            | 0.5                   | 0.5   | 2.0%                 | 2.1%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.00837           | 0.0335     | 1.01    | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 0.4%                 | 0.4%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 2.61              | 10.44      |         | D    |                 | 0.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.188             | 0.752      | 25.7    | --   |                 | 25.7                     | 25.7  | 0.01           | 0.3                   | 0.3   | 1.0%                 | 1.0%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0788            | 0.3152     | 36.7    | --   |                 | 36.7                     | 36.7  | 0.01           | 0.4                   | 0.4   | 1.4%                 | 1.4%  |      |       |      |       |
| OCDF                | 0.00468           | 0.0187     | 13.1    | B    | <5x*B           | 13.1                     | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.0486            | 0.1944     | 166     | --   |                 | 166                      | 166   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-77              | 0.37              | 1.48       | 8       | B    | <5x*B           | 8                        | 4     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 0.322             | 1.288      | 0.345   | J    |                 | 0.3                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-105             | 4.8               | 19.2       | 588     | CJ   |                 | 588                      | 294   | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |
| PCB-114             | 4.7               | 18.8       | 28.8    | --   |                 | 28.8                     | 28.8  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-118             | 4.24              | 16.96      | 1180    | CJ   |                 | 1180                     | 590   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.2%  |      |       |      |       |
| PCB-123             | 4.64              | 18.56      | 26.9    | --   |                 | 26.9                     | 26.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-126             | 1.15              | 4.6        | 1.51    | J    |                 | 1.5                      | 0.4   | 0.1            | 0.2                   | 0.0   | 0.6%                 | 0.2%  |      |       |      |       |
| PCB-156             | 0.307             | 1.228      | 158     | --   |                 | 158                      | 158   | 0.0005         | 0.1                   | 0.1   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-157             | 0.319             | 1.276      | 35.7    | --   |                 | 35.7                     | 35.7  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-167             | 0.282             | 1.128      | 52.9    | --   |                 | 52.9                     | 52.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 0.409             | 1.636      |         | EI   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.249             | 0.996      | 7.07    | J    |                 | 7.1                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 26.1              | 26.0  | 0.5       | 0.2   | 26.6         | 26.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00359           | PE Low Std | PEL     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0436            | 0.1744     | 2.14    | NJ   |                 | 1.1                      |       | 0.1            | 0.1                   |       | 0.2%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0214            | 0.0856     | 7.5     | --   |                 | 7.5                      | 7.5   | 1              | 7.5                   | 7.5   | 16.4%                | 16.5% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.00537           | 0.0215     | 64.9    | --   |                 | 64.9                     | 64.9  | 0.05           | 3.2                   | 3.2   | 7.1%                 | 7.1%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0041            | 0.0164     | 17.9    | --   |                 | 17.9                     | 17.9  | 0.5            | 9.0                   | 9.0   | 19.6%                | 19.7% |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.00127           | 0.0051     | 11.9    | --   |                 | 11.9                     | 11.9  | 1              | 11.9                  | 11.9  | 26.1%                | 26.2% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0726            | 0.2904     | 19.2    | --   |                 | 19.2                     | 19.2  | 0.1            | 1.9                   | 1.9   | 4.2%                 | 4.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0659            | 0.2636     | 0.926   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0982            | 0.3928     | 45.1    | --   |                 | 45.1                     | 45.1  | 0.1            | 4.5                   | 4.5   | 9.9%                 | 9.9%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.161             | 0.644      | 42.9    | --   |                 | 42.9                     | 42.9  | 0.1            | 4.3                   | 4.3   | 9.4%                 | 9.4%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0371            | 0.1484     | 5.61    | --   |                 | 5.6                      | 5.6   | 0.1            | 0.6                   | 0.6   | 1.2%                 | 1.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0328            | 0.1312     | 9.47    | --   |                 | 9.5                      | 9.5   | 0.1            | 1.0                   | 1.0   | 2.1%                 | 2.1%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.036             | 0.144      | 1.31    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 8.04              | 32.16      |         | D    | <5x*B           | 2                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.192             | 0.768      | 41.9    | --   |                 | 41.9                     | 41.9  | 0.01           | 0.4                   | 0.4   | 0.9%                 | 0.9%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.104             | 0.416      | 56.5    | --   |                 | 56.5                     | 56.5  | 0.01           | 0.6                   | 0.6   | 1.2%                 | 1.2%  |      |       |      |       |
| OCDF                | 0.143             | 0.572      | 24.9    | --   |                 | 24.9                     | 24.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.199             | 0.796      | 228     | --   |                 | 228                      | 228   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |
| PCB-77              | 0.103             | 0.412      | 12.6    | B    | <5x*B           | 12.6                     | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 0.105             | 0.42       | 0.734   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-105             | 3.99              | 15.96      | 486     | --   |                 | 486                      | 486   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-114             | 3.97              | 15.88      | 25.2    | --   |                 | 25.2                     | 25.2  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-118             | 3.54              | 14.16      | 967     | CJ   |                 | 967                      | 483.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |      |       |      |       |
| PCB-123             | 3.98              | 15.92      |         | --   |                 | 2                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-126             | 0.503             | 2.012      | 2.42    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.5%                 | 0.5%  |      |       |      |       |
| PCB-156             | 0.355             | 1.42       | 134     | --   |                 | 134                      | 134   | 0.0005         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |       |
| PCB-157             | 0.374             | 1.496      | 33      | --   |                 | 33                       | 33    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-167             | 0.345             | 1.38       | 46.8    | --   |                 | 46.8                     | 46.8  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 0.654             | 2.616      |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.455             | 1.82       | 5.83    | --   |                 | 5.8                      | 5.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 45.2              | 45.1  | 0.4       | 0.3   | 45.6         | 45.4  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1002              | PE Med Std | PEM-F   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.195             | 0.78       | 5.48    | NJ   |                 | 2.7                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.169             | 0.676      | 48.6    | --   |                 | 48.6                     | 48.6  | 1              | 48.6                  | 48.6  | 36.2%                | 43.3% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.236             | 0.944      | 37.6    | --   |                 | 37.6                     | 37.6  | 0.05           | 1.9                   | 1.9   | 1.4%                 | 1.7%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.78              | 3.12       |         | E    |                 | 0.4                      |       | 0.5            | 0.2                   |       | 0.1%                 |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.355             | 1.42       | 42.8    | --   |                 | 42.8                     | 42.8  | 1              | 42.8                  | 42.8  | 31.8%                | 38.1% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.71              | 2.84       | 39.4    | --   |                 | 39.4                     | 39.4  | 0.1            | 3.9                   | 3.9   | 2.9%                 | 3.5%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 2.13              | 8.52       |         | D    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 0.0%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.86              | 3.44       | 30.4    | --   |                 | 30.4                     | 30.4  | 0.1            | 3.0                   | 3.0   | 2.3%                 | 2.7%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.667             | 2.668      | 7.81    | --   |                 | 7.8                      | 7.8   | 0.1            | 0.8                   | 0.8   | 0.6%                 | 0.7%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.361             | 1.444      | 37.2    | --   |                 | 37.2                     | 37.2  | 0.1            | 3.7                   | 3.7   | 2.8%                 | 3.3%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.328             | 1.312      | 2.3     | --   |                 | 2.3                      | 2.3   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.32              | 1.28       | 71.8    | J    |                 | 71.8                     | 35.9  | 0.1            | 7.2                   | 3.6   | 5.3%                 | 3.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 39.6              | 158.4      |         | D    |                 | 9.9                      |       | 0.01           | 0.1                   |       | 0.1%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.585             | 2.34       | 24      | --   |                 | 24                       | 24    | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.696             | 2.784      | 65.6    | --   |                 | 65.6                     | 65.6  | 0.01           | 0.7                   | 0.7   | 0.5%                 | 0.6%  |      |       |      |
| OCDF                | 0.293             | 1.172      | 122     | --   |                 | 122                      | 122   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.249             | 0.996      | 511     | --   |                 | 511                      | 511   | 0.0001         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |      |       |      |
| PCB-77              | 42.5              | 170        | 177     | --   |                 | 177                      | 177   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 62.2              | 248.8      |         | --   |                 | 31.1                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 350               | 1400       | 10700   | CJ   |                 | 10700                    | 5350  | 0.0001         | 1.1                   | 0.5   | 0.8%                 | 0.5%  |      |       |      |
| PCB-114             | 324               | 1296       | 522     | --   |                 | 522                      | 261   | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |
| PCB-118             | 311               | 1244       | 20800   | CJ   |                 | 20800                    | 10400 | 0.0001         | 2.1                   | 1.0   | 1.5%                 | 0.9%  |      |       |      |
| PCB-123             | 317               | 1268       | 450     | --   |                 | 450                      | 225   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 309               | 1236       | 59.6    | --   |                 | 154.5                    |       | 0.1            | 15.5                  |       | 11.5%                |       |      |       |      |
| PCB-156             | 6.77              | 27.08      | 2690    | CJ   |                 | 2690                     | 1345  | 0.0005         | 1.3                   | 0.7   | 1.0%                 | 0.6%  |      |       |      |
| PCB-157             | 7.09              | 28.36      | 624     | --   |                 | 624                      | 624   | 0.0005         | 0.3                   | 0.3   | 0.2%                 | 0.3%  |      |       |      |
| PCB-167             | 5.17              | 20.68      | 764     | --   |                 | 764                      | 764   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 5.97              | 23.88      |         | --   |                 | 3                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 1.05              | 4.2        | 106     | --   |                 | 106                      | 106   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 113.8             | 109.5 | 20.6      | 2.6   | 134.4        | 112.1 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1007              | PE Med Std | PEM-B   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.223             | 0.892      | 1.91    | NJ   |                 | 1                        |       | 0.1            | 0.1                   |       | 0.2%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.158             | 0.632      | 14.6    | --   |                 | 14.6                     | 14.6  | 1              | 14.6                  | 14.6  | 30.0%                | 38.4% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.186             | 0.744      | 14.6    | JI   |                 | 14.6                     | 7.3   | 0.05           | 0.7                   | 0.4   | 1.5%                 | 1.0%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.228             | 0.912      | 0.249   | --   |                 | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 0.2%                 | 0.1%  |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.113             | 0.452      | 15      | --   |                 | 15                       | 15    | 1              | 15.0                  | 15.0  | 30.9%                | 39.5% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.236             | 0.944      | 13.9    | --   |                 | 13.9                     | 13.9  | 0.1            | 1.4                   | 1.4   | 2.9%                 | 3.7%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.722             | 2.888      |         | DJI  |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.287             | 1.148      | 9.95    | --   |                 | 10                       | 10    | 0.1            | 1.0                   | 1.0   | 2.1%                 | 2.6%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.333             | 1.332      | 2.86    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.6%                 | 0.8%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.154             | 0.616      | 12.3    | --   |                 | 12.3                     | 12.3  | 0.1            | 1.2                   | 1.2   | 2.5%                 | 3.2%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.136             | 0.544      | 0.719   | JI   |                 | 0.7                      | 0.4   | 0.1            | 0.1                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.135             | 0.54       | 25.8    | --   |                 | 25.8                     | 25.8  | 0.1            | 2.6                   | 2.6   | 5.3%                 | 6.8%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 13.5              | 54         |         | D    |                 | 3.4                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.342             | 1.368      | 8.38    | --   |                 | 8.4                      | 8.4   | 0.01           | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.264             | 1.056      | 15.1    | --   |                 | 15.1                     | 15.1  | 0.01           | 0.2                   | 0.2   | 0.3%                 | 0.4%  |      |       |      |
| OCDF                | 0.148             | 0.592      | 38.4    | JI   |                 | 38.4                     | 19.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.175             | 0.7        | 100     | BJI  |                 | 100                      | 50    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-77              | 30.7              | 122.8      | 148     | --   |                 | 148                      | 148   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 39.5              | 158        |         | --   |                 | 19.8                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 208               | 832        | 7820    | CJ   |                 | 7820                     | 3910  | 0.0001         | 0.8                   | 0.4   | 1.6%                 | 1.0%  |      |       |      |
| PCB-114             | 192               | 768        | 411     | --   |                 | 411                      | 205.5 | 0.0005         | 0.2                   | 0.1   | 0.4%                 | 0.3%  |      |       |      |
| PCB-118             | 15500             | 62000      |         | CEJ  |                 | 7750                     |       | 0.0001         | 0.8                   |       | 1.6%                 |       |      |       |      |
| PCB-123             | 182               | 728        | 300     | --   |                 | 300                      | 150   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| PCB-126             | 164               | 656        |         | --   |                 | 82                       |       | 0.1            | 8.2                   |       | 16.9%                |       |      |       |      |
| PCB-156             | 2.35              | 9.4        | 1900    | CJ   |                 | 1900                     | 950   | 0.0005         | 1.0                   | 0.5   | 2.0%                 | 1.2%  |      |       |      |
| PCB-157             | 2.46              | 9.84       | 445     | --   |                 | 445                      | 445   | 0.0005         | 0.2                   | 0.2   | 0.5%                 | 0.6%  |      |       |      |
| PCB-167             | 1.76              | 7.04       | 499     | --   |                 | 499                      | 499   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 4.85              | 19.4       |         | E    |                 | 2.4                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-189             | 0.851             | 3.404      | 69.3    | --   |                 | 69.3                     | 69.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 37.4              | 36.9  | 11.2      | 1.2   | 48.6         | 38.1  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1014              | PE Med Std | PEM-S   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.588             | 2.352      | 3.09    | NJ   |                 | 1.5                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.532             | 2.128      | 22.9    | --   |                 | 22.9                     | 22.9  | 1              | 22.9                  | 22.9  | 34.5%                | 41.2% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.581             | 2.324      | 18      | --   |                 | 18                       | 18    | 0.05           | 0.9                   | 0.9   | 1.4%                 | 1.6%  |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.768             | 3.072      |         | --   |                 | 0.4                      |       | 0.5            | 0.2                   |       | 0.3%                 |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.44              | 1.76       | 20.8    | --   |                 | 20.8                     | 20.8  | 1              | 20.8                  | 20.8  | 31.3%                | 37.4% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.275             | 1.1        | 22      | --   |                 | 22                       | 22    | 0.1            | 2.2                   | 2.2   | 3.3%                 | 4.0%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.397             | 1.588      | 0.788   | D    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.254             | 1.016      | 14.8    | --   |                 | 14.8                     | 14.8  | 0.1            | 1.5                   | 1.5   | 2.2%                 | 2.7%  |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.331             | 1.324      | 4.56    | --   |                 | 4.6                      | 4.6   | 0.1            | 0.5                   | 0.5   | 0.7%                 | 0.8%  |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.232             | 0.928      | 18.7    | --   |                 | 18.7                     | 18.7  | 0.1            | 1.9                   | 1.9   | 2.8%                 | 3.4%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.212             | 0.848      | 1.35    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 0.2%                 | 0.3%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.206             | 0.824      | 29.4    | --   |                 | 29.4                     | 29.4  | 0.1            | 2.9                   | 2.9   | 4.4%                 | 5.3%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 19.4              | 77.6       |         | D    |                 | 4.9                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.781             | 3.124      | 13.3    | --   |                 | 13.3                     | 13.3  | 0.01           | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.411             | 1.644      | 20.5    | --   |                 | 20.5                     | 20.5  | 0.01           | 0.2                   | 0.2   | 0.3%                 | 0.4%  |      |       |      |
| OCDF                | 0.396             | 1.584      | 63.8    | --   |                 | 63.8                     | 63.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.235             | 0.94       | 138     | B    |                 | 138                      | 69    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-77              | 21.3              | 85.2       | 117     | --   |                 | 117                      | 117   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 22.1              | 88.4       |         | --   |                 | 11.1                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 197               | 788        | 5900    | CJ   |                 | 5900                     | 2950  | 0.0001         | 0.6                   | 0.3   | 0.9%                 | 0.5%  |      |       |      |
| PCB-114             | 182               | 728        | 341     | --   |                 | 341                      | 170.5 | 0.0005         | 0.2                   | 0.1   | 0.3%                 | 0.2%  |      |       |      |
| PCB-118             | 181               | 724        | 12600   | CJ   |                 | 12600                    | 6300  | 0.0001         | 1.3                   | 0.6   | 1.9%                 | 1.1%  |      |       |      |
| PCB-123             | 184               | 736        | 249     | --   |                 | 249                      | 124.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-126             | 178               | 712        | 33.8    | --   |                 | 89                       |       | 0.1            | 8.9                   |       | 13.4%                |       |      |       |      |
| PCB-156             | 2.83              | 11.32      | 1390    | CJ   |                 | 1390                     | 695   | 0.0005         | 0.7                   | 0.3   | 1.0%                 | 0.6%  |      |       |      |
| PCB-157             | 2.97              | 11.88      | 319     | --   |                 | 319                      | 319   | 0.0005         | 0.2                   | 0.2   | 0.2%                 | 0.3%  |      |       |      |
| PCB-167             | 2.14              | 8.56       | 392     | --   |                 | 392                      | 392   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 2.46              | 9.84       | 4.29    | --   |                 | 4.3                      | 2.1   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |
| PCB-189             | 0.676             | 2.704      | 51.3    | --   |                 | 51.3                     | 51.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 54.4              | 54.0  | 11.9      | 1.5   | 66.3         | 55.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 1016 | PE Med Std | PEM-R |
|-----------|------|------------|-------|
|-----------|------|------------|-------|

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.606             | 2.424 | 4.14    | NJ   |                 | 2.1                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.268             | 1.072 | 30.3    | --   |                 | 30.3                     | 30.3  | 1              | 30.3                  | 30.3  | 34.8%                | 40.2% |
| 1,2,3,7,8-PeCDF     | 0.338             | 1.352 | 20.4    | JI   |                 | 20.4                     | 10.2  | 0.05           | 1.0                   | 0.5   | 1.2%                 | 0.7%  |
| 2,3,4,7,8-PeCDF     | 0.328             | 1.312 | 0.497   | JI   |                 | 0.5                      | 0.1   | 0.5            | 0.3                   | 0.1   | 0.3%                 | 0.1%  |
| 1,2,3,7,8-PeCDD     | 0.579             | 2.316 | 30.2    | --   |                 | 30.2                     | 30.2  | 1              | 30.2                  | 30.2  | 34.6%                | 40.1% |
| 1,2,3,4,7,8-HxCDF   | 0.286             | 1.144 | 24.2    | --   |                 | 24.2                     | 24.2  | 0.1            | 2.4                   | 2.4   | 2.8%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.82              | 3.28  | 1.28    | --   |                 | 1.3                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.373             | 1.492 | 19.4    | --   |                 | 19.4                     | 19.4  | 0.1            | 1.9                   | 1.9   | 2.2%                 | 2.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.294             | 1.176 | 5.47    | --   |                 | 5.5                      | 5.5   | 0.1            | 0.6                   | 0.6   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.375             | 1.5   | 23.7    | --   |                 | 23.7                     | 23.7  | 0.1            | 2.4                   | 2.4   | 2.7%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.418             | 1.672 | 1.42    | --   |                 | 1.4                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.2%                 | 0.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.373             | 1.492 | 47.2    | --   |                 | 47.2                     | 47.2  | 0.1            | 4.7                   | 4.7   | 5.4%                 | 6.3%  |
| 1,2,3,4,6,7,8-HpCDF | 27.4              | 109.6 |         | D    |                 | 6.9                      |       | 0.01           | 0.1                   |       | 0.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.96              | 3.84  | 17      | --   |                 | 17                       | 17    | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.426             | 1.704 | 25.9    | B    |                 | 25.9                     | 13    | 0.01           | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| OCDF                | 0.279             | 1.116 | 59      | --   |                 | 59                       | 59    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.54              | 2.16  | 184     | B    |                 | 184                      | 92    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 32.5              | 130   | 128     | --   |                 | 128                      | 64    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 45.6              | 182.4 |         | --   |                 | 22.8                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 214               | 856   | 6680    | CJ   |                 | 6680                     | 3340  | 0.0001         | 0.7                   | 0.3   | 0.8%                 | 0.4%  |
| PCB-114             | 198               | 792   | 339     | --   |                 | 339                      | 169.5 | 0.0005         | 0.2                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-118             | 202               | 808   | 14800   | CJ   |                 | 14800                    | 7400  | 0.0001         | 1.5                   | 0.7   | 1.7%                 | 1.0%  |
| PCB-123             | 206               | 824   | 330     | --   |                 | 330                      | 165   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 179               | 716   | 38.6    | --   |                 | 89.5                     |       | 0.1            | 9.0                   |       | 10.3%                |       |
| PCB-156             | 8.07              | 32.28 | 1690    | CJ   |                 | 1690                     | 845   | 0.0005         | 0.8                   | 0.4   | 1.0%                 | 0.6%  |
| PCB-157             | 8.45              | 33.8  | 397     | --   |                 | 397                      | 397   | 0.0005         | 0.2                   | 0.2   | 0.2%                 | 0.3%  |
| PCB-167             | 6.13              | 24.52 | 474     | --   |                 | 474                      | 474   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 7.07              | 28.28 | 4.15    | --   |                 | 3.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.587             | 2.348 | 63.8    | --   |                 | 63.8                     | 63.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 74.8              | 73.6  | 12.4      | 1.7   | 87.2         | 75.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 1017 | PE Med Std | PEM-F |
|-----------|------|------------|-------|
|-----------|------|------------|-------|

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.26              | 5.04  | 5.86    | NJ   |                 | 2.9                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.351             | 1.404 | 50.5    | --   |                 | 50.5                     | 50.5  | 1              | 50.5                  | 50.5  | 37.5%                | 43.1% |
| 1,2,3,7,8-PeCDF     | 0.473             | 1.892 | 40.5    | --   |                 | 40.5                     | 40.5  | 0.05           | 2.0                   | 2.0   | 1.5%                 | 1.7%  |
| 2,3,4,7,8-PeCDF     | 0.475             | 1.9   | 0.856   | --   |                 | 0.9                      | 0.4   | 0.5            | 0.5                   | 0.2   | 0.3%                 | 0.2%  |
| 1,2,3,7,8-PeCDD     | 0.375             | 1.5   | 44.5    | --   |                 | 44.5                     | 44.5  | 1              | 44.5                  | 44.5  | 33.1%                | 38.0% |
| 1,2,3,4,7,8-HxCDF   | 0.496             | 1.984 | 42.1    | --   |                 | 42.1                     | 42.1  | 0.1            | 4.2                   | 4.2   | 3.1%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDF   | 2.23              | 8.92  |         | D    |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.629             | 2.516 | 31.7    | --   |                 | 31.7                     | 31.7  | 0.1            | 3.2                   | 3.2   | 2.4%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.413             | 1.652 | 9.02    | JI   |                 | 9                        | 4.5   | 0.1            | 0.9                   | 0.5   | 0.7%                 | 0.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.229             | 0.916 | 33.3    | --   |                 | 33.3                     | 33.3  | 0.1            | 3.3                   | 3.3   | 2.5%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.273             | 1.092 | 2.1     | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.236             | 0.944 | 61.6    | --   |                 | 61.6                     | 61.6  | 0.1            | 6.2                   | 6.2   | 4.6%                 | 5.3%  |
| 1,2,3,4,6,7,8-HpCDF | 42.5              | 170   |         | D    |                 | 10.6                     |       | 0.01           | 0.1                   |       | 0.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.36              | 1.44  | 27.1    | --   |                 | 27.1                     | 27.1  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.569             | 2.276 | 47.9    | --   |                 | 47.9                     | 47.9  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.411             | 1.644 | 130     | --   |                 | 130                      | 130   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.315             | 1.26  | 318     | --   |                 | 318                      | 318   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 18.3              | 73.2  | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 71.5              | 286   |         | --   |                 | 35.8                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 326               | 1304  | 10200   | CJ   |                 | 10200                    | 5100  | 0.0001         | 1.0                   | 0.5   | 0.8%                 | 0.4%  |
| PCB-114             | 301               | 1204  | 510     | --   |                 | 510                      | 255   | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-118             | 17300             | 69200 |         | CEJ  |                 | 8650                     |       | 0.0001         | 0.9                   |       | 0.6%                 |       |
| PCB-123             | 299               | 1196  | 396     | --   |                 | 396                      | 198   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 280               | 1120  |         | --   |                 | 140                      |       | 0.1            | 14.0                  |       | 10.4%                |       |
| PCB-156             | 2.51              | 10.04 | 2630    | CJ   |                 | 2630                     | 1315  | 0.0005         | 1.3                   | 0.7   | 1.0%                 | 0.6%  |
| PCB-157             | 2.63              | 10.52 | 618     | --   |                 | 618                      | 618   | 0.0005         | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| PCB-167             | 1.97              | 7.88  | 763     | --   |                 | 763                      | 763   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 6.5               | 26    |         | E    |                 | 3.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.832             | 3.328 | 106     | --   |                 | 106                      | 106   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 116.8             | 115.6 | 17.8      | 1.6   | 134.6        | 117.2 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 152 PE Med Std PEM-F-3

Replaced 'S' in result column with 10x the QL for PCB-118.

| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.675             | 2.7   | 6.65    | NJ   |                 | 3.3                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.311             | 1.244 | 53.6    | --   |                 | 53.6                     | 53.6  | 1              | 53.6                  | 53.6  | 40.3%                | 49.1% |
| 1,2,3,7,8-PeCDF     | 0.29              | 1.16  | 42      | --   |                 | 42                       | 42    | 0.05           | 2.1                   | 2.1   | 1.6%                 | 1.9%  |
| 2,3,4,7,8-PeCDF     | 0.247             | 0.988 | 0.98    | J    |                 | 1                        | 0.2   | 0.5            | 0.5                   | 0.1   | 0.4%                 | 0.1%  |
| 1,2,3,7,8-PeCDD     | 0.159             | 0.636 | 45.6    | J    |                 | 45.6                     | 22.8  | 1              | 45.6                  | 22.8  | 34.3%                | 20.9% |
| 1,2,3,4,7,8-HxCDF   | 0.307             | 1.228 | 46.1    | --   |                 | 46.1                     | 46.1  | 0.1            | 4.6                   | 4.6   | 3.5%                 | 4.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.332             | 1.328 | 2.02    | --   |                 | 2                        | 2     | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.344             | 1.376 | 34.4    | --   |                 | 34.4                     | 34.4  | 0.1            | 3.4                   | 3.4   | 2.6%                 | 3.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.421             | 1.684 | 9.23    | --   |                 | 9.2                      | 9.2   | 0.1            | 0.9                   | 0.9   | 0.7%                 | 0.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.255             | 1.02  | 39.6    | --   |                 | 39.6                     | 39.6  | 0.1            | 4.0                   | 4.0   | 3.0%                 | 3.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.221             | 0.884 | 2.92    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.22              | 0.88  | 70.7    | --   |                 | 70.7                     | 70.7  | 0.1            | 7.1                   | 7.1   | 5.3%                 | 6.5%  |
| 1,2,3,4,6,7,8-HpCDF | 49.7              | 198.8 |         | D    |                 | 12.4                     |       | 0.01           | 0.1                   |       | 0.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.293             | 1.172 | 28.9    | --   |                 | 28.9                     | 28.9  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| 1,2,3,4,6,7,8-HpCDD | 0.206             | 0.824 | 48.2    | --   |                 | 48.2                     | 48.2  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.131             | 0.524 | 161     | --   |                 | 161                      | 161   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.107             | 0.428 | 404     | --   |                 | 404                      | 404   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 4.08              | 16.32 | 217     | --   |                 | 217                      | 217   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 4.33              | 17.32 |         | --   | <5x*B           | 2.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 367               | 1468  | 10700   | S    |                 | 10700                    | 10700 | 0.0001         | 1.1                   | 1.1   | 0.8%                 | 1.0%  |
| PCB-114             | 358               | 1432  | 694     | C    |                 | 694                      | 347   | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.2%  |
| PCB-118             | 298               | 1192  |         | SJ   | <5x*B           | 149                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-123             | 316               | 1264  | 602     | C    |                 | 602                      | 301   | 0.0001         | 0.1                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 6.68              | 26.72 | 61.8    | --   |                 | 61.8                     | 61.8  | 0.1            | 6.2                   | 6.2   | 4.6%                 | 5.7%  |
| PCB-156             | 6.27              | 25.08 | 2850    | C    |                 | 2850                     | 2850  | 0.0005         | 1.4                   | 1.4   | 1.1%                 | 1.3%  |
| PCB-157             | 6.22              | 24.88 | 641     | C    |                 | 641                      | 641   | 0.0005         | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| PCB-167             | 7.25              | 29    | 1330    | C    |                 | 1330                     | 1330  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 8.96              | 35.84 |         | E    |                 | 4.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 3.32              | 13.28 | 109     | --   |                 | 109                      | 109   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 123.5             | 99.9  | 9.4       | 9.2   | 132.9        | 109.1 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 201 | PE Med Std | PEM-F-10 |
|-----------|-----|------------|----------|
|-----------|-----|------------|----------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0361            | 0.1444 | 6.22    | NJ   |                 | 3.1                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0204            | 0.0816 | 53.5    | --   |                 | 53.5                     | 53.5  | 1              | 53.5                  | 53.5  | 41.5%                | 42.5% |
| 1,2,3,7,8-PeCDF     | 0.0173            | 0.0692 | 37.9    | --   |                 | 37.9                     | 37.9  | 0.05           | 1.9                   | 1.9   | 1.5%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.971             | 3.884  |         | E    |                 | 0.5                      |       | 0.5            | 0.3                   |       | 0.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00541           | 0.0216 | 42.2    | --   |                 | 42.2                     | 42.2  | 1              | 42.2                  | 42.2  | 32.7%                | 33.5% |
| 1,2,3,4,7,8-HxCDF   | 0.0333            | 0.1332 | 39.6    | --   |                 | 39.6                     | 39.6  | 0.1            | 4.0                   | 4.0   | 3.1%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.0293            | 0.1172 | 1.64    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0344            | 0.1376 | 31.1    | --   |                 | 31.1                     | 31.1  | 0.1            | 3.1                   | 3.1   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0433            | 0.1732 | 8.31    | --   |                 | 8.3                      | 8.3   | 0.1            | 0.8                   | 0.8   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0361            | 0.1444 | 35.7    | --   |                 | 35.7                     | 35.7  | 0.1            | 3.6                   | 3.6   | 2.8%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0327            | 0.1308 | 2.88    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0355            | 0.142  | 65.7    | --   |                 | 65.7                     | 65.7  | 0.1            | 6.6                   | 6.6   | 5.1%                 | 5.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0497            | 0.1988 | 49.9    | --   |                 | 49.9                     | 49.9  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0771            | 0.3084 | 26.4    | --   |                 | 26.4                     | 26.4  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0532            | 0.2128 | 48.4    | --   |                 | 48.4                     | 48.4  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.0506            | 0.2024 | 146     | --   |                 | 146                      | 146   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0505            | 0.202  | 443     | --   |                 | 443                      | 443   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.865             | 3.46   | 199     | --   |                 | 199                      | 199   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.882             | 3.528  | 8.17    | --   |                 | 8.2                      | 8.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 14.6              | 58.4   | 10800   | CJ   |                 | 10800                    | 5400  | 0.0001         | 1.1                   | 0.5   | 0.8%                 | 0.4%  |
| PCB-114             | 14.5              | 58     | 698     | CJ   |                 | 698                      | 349   | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.1%  |
| PCB-118             | 13                | 52     | 19700   | SJ   |                 | 19700                    | 9850  | 0.0001         | 2.0                   | 1.0   | 1.5%                 | 0.8%  |
| PCB-123             | 14.6              | 58.4   |         | --   |                 | 7.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 8.18              | 32.72  | 58.7    | --   |                 | 58.7                     | 58.7  | 0.1            | 5.9                   | 5.9   | 4.5%                 | 4.7%  |
| PCB-156             | 2.78              | 11.12  | 2820    | CJ   |                 | 2820                     | 1410  | 0.0005         | 1.4                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 2.92              | 11.68  | 649     | CJ   |                 | 649                      | 324.5 | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.1%  |
| PCB-167             | 2.7               | 10.8   | 1080    | CJ   |                 | 1080                     | 540   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 7.79              | 31.16  |         | E    |                 | 3.9                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.11              | 4.44   | 113     | --   |                 | 113                      | 113   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 118.1             | 117.5 | 11.0      | 8.5   | 129.1        | 126.0 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 255 PE Med Std PC00817

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0194            | 0.0776 | 4.19    | NJ   |                 | 2.1                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0097            | 0.0388 | 36.1    | --   |                 | 36.1                     | 36.1  | 1              | 36.1                  | 36.1  | 41.5%                | 43.2% |
| 1,2,3,7,8-PeCDF     | 0.021             | 0.084  | 25      | --   |                 | 25                       | 25    | 0.05           | 1.3                   | 1.3   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.0175            | 0.07   | 0.548   | --   |                 | 0.5                      | 0.5   | 0.5            | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| 1,2,3,7,8-PeCDD     | 0.0154            | 0.0616 | 29.1    | --   |                 | 29.1                     | 29.1  | 1              | 29.1                  | 29.1  | 33.4%                | 34.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0168            | 0.0672 | 26.5    | --   |                 | 26.5                     | 26.5  | 0.1            | 2.7                   | 2.7   | 3.0%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0153            | 0.0612 | 1.3     | I    |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0212            | 0.0848 | 20.6    | --   |                 | 20.6                     | 20.6  | 0.1            | 2.1                   | 2.1   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0319            | 0.1276 | 5.89    | --   |                 | 5.9                      | 5.9   | 0.1            | 0.6                   | 0.6   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0221            | 0.0884 | 25.5    | --   |                 | 25.5                     | 25.5  | 0.1            | 2.6                   | 2.6   | 2.9%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0193            | 0.0772 | 1.72    | I    |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0213            | 0.0852 | 35.7    | IJ   |                 | 35.7                     | 17.9  | 0.1            | 3.6                   | 1.8   | 4.1%                 | 2.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0392            | 0.1568 | 28.6    | I    |                 | 28.6                     | 28.6  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0824            | 0.3296 | 17.2    | --   |                 | 17.2                     | 17.2  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.132             | 0.528  | 27.8    | --   |                 | 27.8                     | 27.8  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| OCDF                | 0.04              | 0.16   | 108     | --   |                 | 108                      | 108   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0472            | 0.1888 | 215     | --   |                 | 215                      | 215   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.107             | 0.428  | 146     | --   |                 | 146                      | 146   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.143             | 0.572  | 6.02    | --   |                 | 6                        | 6     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 34.3              | 137.2  | 7580    | SJ   |                 | 7580                     | 3790  | 0.0001         | 0.8                   | 0.4   | 0.9%                 | 0.5%  |
| PCB-114             | 34.1              | 136.4  | 373     | --   |                 | 373                      | 373   | 0.0005         | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| PCB-118             | 34.2              | 136.8  | 11300   | SJ   |                 | 11300                    | 5650  | 0.0001         | 1.1                   | 0.6   | 1.3%                 | 0.7%  |
| PCB-123             | 38.4              | 153.6  | 303     | J    |                 | 303                      | 151.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.36              | 5.44   | 43.2    | --   |                 | 43.2                     | 43.2  | 0.1            | 4.3                   | 4.3   | 5.0%                 | 5.2%  |
| PCB-156             | 0.579             | 2.316  | 1870    | CJ   |                 | 1870                     | 935   | 0.0005         | 0.9                   | 0.5   | 1.1%                 | 0.6%  |
| PCB-157             | 0.61              | 2.44   | 418     | --   |                 | 418                      | 418   | 0.0005         | 0.2                   | 0.2   | 0.2%                 | 0.3%  |
| PCB-167             | 0.562             | 2.248  | 635     | CJ   |                 | 635                      | 317.5 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 6.14              | 24.56  | E       |      |                 | 3.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.543             | 2.172  | 71.7    | --   |                 | 71.7                     | 71.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 79.7              | 77.7  | 7.5       | 6.2   | 87.2         | 83.9  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 308 | PE Med Std | PEM-F-6 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0517            | 0.2068 | 5.84    | NJ    |                 | 2.9                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0206            | 0.0824 | 54.1    | --    |                 | 54.1                     | 54.1  | 1              | 54.1                  | 54.1  | 42.3%                | 45.4% |
| 1,2,3,7,8-PeCDF     | 0.0338            | 0.1352 | 38.2    | --    |                 | 38.2                     | 38.2  | 0.05           | 1.9                   | 1.9   | 1.5%                 | 1.6%  |
| 2,3,4,7,8-PeCDF     | 0.0343            | 0.1372 | 0.998   | --    |                 | 1                        | 1     | 0.5            | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.0437            | 0.1748 | 41.8    | --    |                 | 41.8                     | 41.8  | 1              | 41.8                  | 41.8  | 32.7%                | 35.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0314            | 0.1256 | 38.4    | --    |                 | 38.4                     | 38.4  | 0.1            | 3.8                   | 3.8   | 3.0%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.0292            | 0.1168 | 2.39    | --    |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0485            | 0.194  | 26.9    | --    |                 | 26.9                     | 26.9  | 0.1            | 2.7                   | 2.7   | 2.1%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0405            | 0.162  | 7.79    | --    |                 | 7.8                      | 7.8   | 0.1            | 0.8                   | 0.8   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0266            | 0.1064 | 35.4    | --    |                 | 35.4                     | 35.4  | 0.1            | 3.5                   | 3.5   | 2.8%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0226            | 0.0904 | 2.63    | --    |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0267            | 0.1068 | 69.9    | J     |                 | 69.9                     | 35    | 0.1            | 7.0                   | 3.5   | 5.5%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0135            | 0.054  | 44.2    | --    |                 | 44.2                     | 44.2  | 0.01           | 0.4                   | 0.4   | 0.3%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0288            | 0.1152 | 26.5    | --    |                 | 26.5                     | 26.5  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0461            | 0.1844 | 50.5    | --    |                 | 50.5                     | 50.5  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.106             | 0.424  | 124     | --    |                 | 124                      | 124   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0775            | 0.31   | 502     | --    |                 | 502                      | 502   | 0.0001         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-77              | 2.16              | 8.64   | 183     | --    |                 | 183                      | 183   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.89              | 7.56   | 7.12    | --    |                 | 7.1                      | 3.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 36                | 144    | 7570    | SJE   |                 | 7570                     | 3785  | 0.0001         | 0.8                   | 0.4   | 0.6%                 | 0.3%  |
| PCB-114             | 36.5              | 146    | 589     | CJ    |                 | 589                      | 294.5 | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-118             | 33.8              | 135.2  | 8740    | SJE   |                 | 8740                     | 4370  | 0.0001         | 0.9                   | 0.4   | 0.7%                 | 0.4%  |
| PCB-123             | 39.4              | 157.6  | 385     | --    |                 | 385                      | 385   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 16.6              | 66.4   | 60.4    | --    |                 | 60.4                     | 30.2  | 0.1            | 6.0                   | 3.0   | 4.7%                 | 2.5%  |
| PCB-156             | 0.913             | 3.652  | 2380    | CJ    |                 | 2380                     | 1190  | 0.0005         | 1.2                   | 0.6   | 0.9%                 | 0.5%  |
| PCB-157             | 0.951             | 3.804  | 551     | CJ    |                 | 551                      | 275.5 | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-167             | 0.873             | 3.492  | 933     | CJ    |                 | 933                      | 466.5 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 8.04              | 32.16  | E       | <5x*B |                 | 4                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.798             | 3.192  | 107     | --    |                 | 107                      | 107   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 118.2             | 114.4 | 9.5       | 4.6   | 127.7        | 119.0 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 324 PE Med Std PC00819

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.103             | 0.412  | 4.37    | NJ   |                 | 2.2                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0171            | 0.0684 | 32.7    | --   |                 | 32.7                     | 32.7  | 1              | 32.7                  | 32.7  | 37.4%                | 39.5% |
| 1,2,3,7,8-PeCDF     | 0.0181            | 0.0724 | 24      | --   |                 | 24                       | 24    | 0.05           | 1.2                   | 1.2   | 1.4%                 | 1.4%  |
| 2,3,4,7,8-PeCDF     | 0.014             | 0.056  | 0.562   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 0.3%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.0153            | 0.0612 | 30.5    | --   |                 | 30.5                     | 30.5  | 1              | 30.5                  | 30.5  | 34.9%                | 36.9% |
| 1,2,3,4,7,8-HxCDF   | 0.0507            | 0.2028 | 27.7    | --   |                 | 27.7                     | 27.7  | 0.1            | 2.8                   | 2.8   | 3.2%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0451            | 0.1804 | 1.36    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0571            | 0.2284 | 21.1    | --   |                 | 21.1                     | 21.1  | 0.1            | 2.1                   | 2.1   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0631            | 0.2524 | 5.59    | --   |                 | 5.6                      | 5.6   | 0.1            | 0.6                   | 0.6   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.038             | 0.152  | 24.8    | --   |                 | 24.8                     | 24.8  | 0.1            | 2.5                   | 2.5   | 2.8%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0336            | 0.1344 | 1.82    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.037             | 0.148  | 47.8    | J    |                 | 47.8                     | 23.9  | 0.1            | 4.8                   | 2.4   | 5.5%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0474            | 0.1896 | 33.2    | --   |                 | 33.2                     | 33.2  | 0.01           | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0562            | 0.2248 | 17.6    | --   |                 | 17.6                     | 17.6  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.039             | 0.156  | 26.4    | --   |                 | 26.4                     | 26.4  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| OCDF                | 0.0387            | 0.1548 | 98      | J    |                 | 98                       | 49    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0435            | 0.174  | 211     | --   |                 | 211                      | 211   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.343             | 1.372  | 161     | --   |                 | 161                      | 161   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.365             | 1.46   | 6.56    | --   |                 | 6.6                      | 6.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 7.76              | 31.04  | 8880    | CJ   |                 | 8880                     | 4440  | 0.0001         | 0.9                   | 0.4   | 1.0%                 | 0.5%  |
| PCB-114             | 8.11              | 32.44  | 522     | CJ   |                 | 522                      | 261   | 0.0005         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| PCB-118             | 9.27              | 37.08  | 16500   | SJ   |                 | 16500                    | 8250  | 0.0001         | 1.7                   | 0.8   | 1.9%                 | 1.0%  |
| PCB-123             | 10.5              | 42     | 309     | --   |                 | 309                      | 309   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 4.72              | 18.88  | 45      | --   |                 | 45                       | 45    | 0.1            | 4.5                   | 4.5   | 5.1%                 | 5.4%  |
| PCB-156             | 1.09              | 4.36   | 2210    | CJ   |                 | 2210                     | 1105  | 0.0005         | 1.1                   | 0.6   | 1.3%                 | 0.7%  |
| PCB-157             | 1.13              | 4.52   | 505     | CJ   |                 | 505                      | 252.5 | 0.0005         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |
| PCB-167             | 1.11              | 4.44   | 818     | CJ   |                 | 818                      | 409   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 5.2               | 20.8   | E       |      |                 | 2.6                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.351             | 1.404  | 84.7    | --   |                 | 84.7                     | 84.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 78.8              | 76.2  | 8.8       | 6.5   | 87.6         | 82.7  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 351 PE Med Std PEM-F-12

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0316            | 0.1264 | 6.72    | NJ   |                 | 3.4                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0212            | 0.0848 | 58.9    | --   |                 | 58.9                     | 58.9  | 1              | 58.9                  | 58.9  | 42.7%                | 44.6% |
| 1,2,3,7,8-PeCDF     | 0.0258            | 0.1032 | 44.6    | --   |                 | 44.6                     | 44.6  | 0.05           | 2.2                   | 2.2   | 1.6%                 | 1.7%  |
| 2,3,4,7,8-PeCDF     | 0.0202            | 0.0808 | 1.05    | --   |                 | 1.1                      | 1.1   | 0.5            | 0.6                   | 0.6   | 0.4%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.00315           | 0.0126 | 43.7    | --   |                 | 43.7                     | 43.7  | 1              | 43.7                  | 43.7  | 31.7%                | 33.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0771            | 0.3084 | 44      | --   |                 | 44                       | 44    | 0.1            | 4.4                   | 4.4   | 3.2%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0687            | 0.2748 | 1.84    | B    | <5x*B           | 1.8                      | 0.9   | 0.1            | 0.2                   | 0.1   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0882            | 0.3528 | 35.1    | --   |                 | 35.1                     | 35.1  | 0.1            | 3.5                   | 3.5   | 2.5%                 | 2.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.121             | 0.484  | 9.08    | --   |                 | 9.1                      | 9.1   | 0.1            | 0.9                   | 0.9   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0265            | 0.106  | 38.1    | --   |                 | 38.1                     | 38.1  | 0.1            | 3.8                   | 3.8   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0235            | 0.094  | 3.28    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.026             | 0.104  | 57.1    | J    |                 | 57.1                     | 28.6  | 0.1            | 5.7                   | 2.9   | 4.1%                 | 2.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0834            | 0.3336 | 50.2    | --   |                 | 50.2                     | 50.2  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.157             | 0.628  | 31.2    | --   |                 | 31.2                     | 31.2  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.096             | 0.384  | 57.1    | --   |                 | 57.1                     | 57.1  | 0.01           | 0.6                   | 0.6   | 0.4%                 | 0.4%  |
| OCDF                | 0.0519            | 0.2076 | 174     | --   |                 | 174                      | 174   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.049             | 0.196  | 492     | --   |                 | 492                      | 492   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.0851            | 0.3404 | 210     | --   |                 | 210                      | 210   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.116             | 0.464  | 8.66    | --   |                 | 8.7                      | 8.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 53.9              | 215.6  | 11600   | CJ   |                 | 11600                    | 5800  | 0.0001         | 1.2                   | 0.6   | 0.8%                 | 0.4%  |
| PCB-114             | 56.4              | 225.6  | 692     | CJ   |                 | 692                      | 346   | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.1%  |
| PCB-118             | 63.5              | 254    | 19000   | SJ   |                 | 19000                    | 9500  | 0.0001         | 1.9                   | 1.0   | 1.4%                 | 0.7%  |
| PCB-123             | 72.2              | 288.8  | 451     | J    |                 | 451                      | 225.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 4.31              | 17.24  | 65.2    | --   |                 | 65.2                     | 65.2  | 0.1            | 6.5                   | 6.5   | 4.7%                 | 4.9%  |
| PCB-156             | 1.13              | 4.52   | 2990    | CJ   |                 | 2990                     | 1495  | 0.0005         | 1.5                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 1.17              | 4.68   | 687     | CJ   |                 | 687                      | 343.5 | 0.0005         | 0.3                   | 0.2   | 0.2%                 | 0.1%  |
| PCB-167             | 1.15              | 4.6    | 1140    | CJ   |                 | 1140                     | 570   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 10.1              | 40.4   | E       |      |                 | 5.1                      |       | 0.01           | 0.1                   |       | 0.0%                 |       |
| PCB-189             | 0.279             | 1.116  | 126     | --   |                 | 126                      | 126   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 125.9             | 122.7 | 11.8      | 9.2   | 137.7        | 131.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 449 PE Med Std PC00831

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0477            | 0.1908 | 4.4     | NJ   |                 | 2.2                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.0235            | 0.094  | 30.8    | --   |                 | 30.8                     | 30.8  | 1              | 30.8                  | 30.8  | 37.5%                | 38.4% |
| 1,2,3,7,8-PeCDF     | 0.0364            | 0.1456 | 23.8    | --   |                 | 23.8                     | 23.8  | 0.05           | 1.2                   | 1.2   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.524             | 2.096  |         | E    |                 | 0.3                      |       | 0.5            | 0.2                   |       | 0.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0402            | 0.1608 | 28.9    | --   |                 | 28.9                     | 28.9  | 1              | 28.9                  | 28.9  | 35.2%                | 36.1% |
| 1,2,3,4,7,8-HxCDF   | 0.0534            | 0.2136 | 26.1    | --   |                 | 26.1                     | 26.1  | 0.1            | 2.6                   | 2.6   | 3.2%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0482            | 0.1928 | 1.46    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.056             | 0.224  | 19.7    | --   |                 | 19.7                     | 19.7  | 0.1            | 2.0                   | 2.0   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0599            | 0.2396 | 5.47    | --   |                 | 5.5                      | 5.5   | 0.1            | 0.6                   | 0.6   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.028             | 0.112  | 23.2    | --   |                 | 23.2                     | 23.2  | 0.1            | 2.3                   | 2.3   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0241            | 0.0964 | 1.5     | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0244            | 0.0976 | 42.3    | --   |                 | 42.3                     | 42.3  | 0.1            | 4.2                   | 4.2   | 5.1%                 | 5.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0331            | 0.1324 | 30.1    | --   |                 | 30.1                     | 30.1  | 0.01           | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0461            | 0.1844 | 18.3    | --   |                 | 18.3                     | 18.3  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0609            | 0.2436 | 29.5    | --   |                 | 29.5                     | 29.5  | 0.01           | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| OCDF                | 0.032             | 0.128  | 108     | J    |                 | 108                      | 54    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0212            | 0.0848 | 230     | --   |                 | 230                      | 230   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.212             | 0.848  | 156     | --   |                 | 156                      | 156   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.244             | 0.976  | 6.79    | --   |                 | 6.8                      | 6.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 14.2              | 56.8   | 7870    | CJ   |                 | 7870                     | 3935  | 0.0001         | 0.8                   | 0.4   | 1.0%                 | 0.5%  |
| PCB-114             | 14.9              | 59.6   | 504     | --   |                 | 504                      | 504   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-118             | 17.2              | 68.8   | 13800   | JS   |                 | 13800                    | 6900  | 0.0001         | 1.4                   | 0.7   | 1.7%                 | 0.9%  |
| PCB-123             | 19                | 76     | 304     | --   |                 | 304                      | 304   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 2.71              | 10.84  | 43.3    | --   |                 | 43.3                     | 43.3  | 0.1            | 4.3                   | 4.3   | 5.3%                 | 5.4%  |
| PCB-156             | 1.05              | 4.2    | 2020    | CJ   |                 | 2020                     | 1010  | 0.0005         | 1.0                   | 0.5   | 1.2%                 | 0.6%  |
| PCB-157             | 1.1               | 4.4    | 477     | --   |                 | 477                      | 477   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| PCB-167             | 1.05              | 4.2    | 718     | --   |                 | 718                      | 718   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 5.92              | 23.68  |         | E    |                 | 3                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.45              | 1.8    | 78.9    | --   |                 | 78.9                     | 78.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 74.2              | 73.8  | 8.0       | 6.4   | 82.2         | 80.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 507 | PE Med Std | PEM-F-5 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |       | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|-------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL    | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.199             | 0.796 | 6.32    | NJ    |                 | 3.2                      |       | 0.1            | 0.3                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.133             | 0.532 | 47.5    | --    |                 | 47.5                     | 47.5  | 1              | 47.5                  | 47.5  | 39.6%                | 41.1% |
| 1,2,3,7,8-PeCDF     | 0.378             | 1.512 | 34.7    | --    |                 | 34.7                     | 34.7  | 0.05           | 1.7                   | 1.7   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.314             | 1.256 | 0.973   | --    |                 | 1                        | 0.5   | 0.5            | 0.5                   | 0.3   | 0.4%                 | 0.2%  |
| 1,2,3,7,8-PeCDD     | 0.121             | 0.484 | 43.8    | --    |                 | 43.8                     | 43.8  | 1              | 43.8                  | 43.8  | 36.5%                | 37.9% |
| 1,2,3,4,7,8-HxCDF   | 0.112             | 0.448 | 37.7    | I     |                 | 37.7                     | 37.7  | 0.1            | 3.8                   | 3.8   | 3.1%                 | 3.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.105             | 0.42  | 2.73    | I     |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.188             | 0.752 | 30.6    | --    |                 | 30.6                     | 30.6  | 0.1            | 3.1                   | 3.1   | 2.5%                 | 2.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.354             | 1.416 | 8.14    | --    |                 | 8.1                      | 8.1   | 0.1            | 0.8                   | 0.8   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.168             | 0.672 | 34.8    | --    |                 | 34.8                     | 34.8  | 0.1            | 3.5                   | 3.5   | 2.9%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.171             | 0.684 | 2.92    | I     |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.185             | 0.74  | 34.5    | JI    |                 | 34.5                     | 17.3  | 0.1            | 3.5                   | 1.7   | 2.9%                 | 1.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.141             | 0.564 | 45.7    | I     |                 | 45.7                     | 45.7  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.42              | 1.68  | 25.8    | --    |                 | 25.8                     | 25.8  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 1.31              | 5.24  | 49.4    | --    |                 | 49.4                     | 49.4  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 1.38              | 5.52  | 162     | --    |                 | 162                      | 162   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 1.1               | 4.4   | 606     | --    |                 | 606                      | 606   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-77              | 1.69              | 6.76  | 184     | --    |                 | 184                      | 184   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.55              | 6.2   | 7.2     | --    |                 | 7.2                      | 7.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 9.17              | 36.68 | 9250    | CJ    |                 | 9250                     | 4625  | 0.0001         | 0.9                   | 0.5   | 0.8%                 | 0.4%  |
| PCB-114             | 9.06              | 36.24 | 567     | CJ    |                 | 567                      | 283.5 | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-118             | 8.2               | 32.8  | 12100   | SJE   |                 | 12100                    | 6050  | 0.0001         | 1.2                   | 0.6   | 1.0%                 | 0.5%  |
| PCB-123             | 9.31              | 37.24 | 341     | --    |                 | 341                      | 341   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 7.17              | 28.68 | 56.2    | --    |                 | 56.2                     | 56.2  | 0.1            | 5.6                   | 5.6   | 4.7%                 | 4.9%  |
| PCB-156             | 0.491             | 1.964 | 2590    | CJ    |                 | 2590                     | 1295  | 0.0005         | 1.3                   | 0.6   | 1.1%                 | 0.6%  |
| PCB-157             | 0.495             | 1.98  | 582     | CJ    |                 | 582                      | 291   | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-167             | 0.469             | 1.876 | 1100    | CJ    |                 | 1100                     | 550   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 7.18              | 28.72 | EI      | <5x*B |                 | 3.6                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.39              | 1.56  | 107     | --    |                 | 107                      | 107   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 110.5             | 108.2 | 9.6       | 7.5   | 120.1        | 115.7 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 565 PE Med Std PC00818

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0317            | 0.1268 | 3.87    | NJ   |                 | 1.9                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0485            | 0.194  | 32.6    | --   |                 | 32.6                     | 32.6  | 1              | 32.6                  | 32.6  | 39.2%                | 41.7% |
| 1,2,3,7,8-PeCDF     | 0.156             | 0.624  | 23      | --   |                 | 23                       | 23    | 0.05           | 1.2                   | 1.2   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.129             | 0.516  | 0.558   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.0713            | 0.2852 | 28.6    | --   |                 | 28.6                     | 28.6  | 1              | 28.6                  | 28.6  | 34.4%                | 36.6% |
| 1,2,3,4,7,8-HxCDF   | 0.198             | 0.792  | 24.8    | --   |                 | 24.8                     | 24.8  | 0.1            | 2.5                   | 2.5   | 3.0%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.178             | 0.712  | 1.21    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.217             | 0.868  | 19.7    | --   |                 | 19.7                     | 19.7  | 0.1            | 2.0                   | 2.0   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.233             | 0.932  | 5.39    | --   |                 | 5.4                      | 5.4   | 0.1            | 0.5                   | 0.5   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0478            | 0.1912 | 23.3    | J    |                 | 23.3                     | 11.7  | 0.1            | 2.3                   | 1.2   | 2.8%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0412            | 0.1648 | 1.5     | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0394            | 0.1576 | 40.7    | J    |                 | 40.7                     | 20.4  | 0.1            | 4.1                   | 2.0   | 4.9%                 | 2.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0943            | 0.3772 | 27.9    | --   |                 | 27.9                     | 27.9  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.144             | 0.576  | 17.8    | --   |                 | 17.8                     | 17.8  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.113             | 0.452  | 26.8    | --   |                 | 26.8                     | 26.8  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| OCDF                | 0.0333            | 0.1332 | 92.3    | --   |                 | 92.3                     | 92.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0599            | 0.2396 | 202     | --   |                 | 202                      | 202   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.555             | 2.22   | 141     | --   |                 | 141                      | 141   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 5.73              | 22.92  |         | E    | <5x*B           | 2.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 12                | 48     | 7610    | CJ   |                 | 7610                     | 3805  | 0.0001         | 0.8                   | 0.4   | 0.9%                 | 0.5%  |
| PCB-114             | 12.5              | 50     | 459     | --   |                 | 459                      | 459   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| PCB-118             | 14.1              | 56.4   | 13800   | SJ   |                 | 13800                    | 6900  | 0.0001         | 1.4                   | 0.7   | 1.7%                 | 0.9%  |
| PCB-123             | 16                | 64     | 273     | --   |                 | 273                      | 273   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.466             | 1.864  | 42.5    | --   |                 | 42.5                     | 42.5  | 0.1            | 4.3                   | 4.3   | 5.1%                 | 5.4%  |
| PCB-156             | 0.937             | 3.748  | 1920    | CJ   |                 | 1920                     | 960   | 0.0005         | 1.0                   | 0.5   | 1.2%                 | 0.6%  |
| PCB-157             | 0.969             | 3.876  | 427     | --   |                 | 427                      | 427   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |
| PCB-167             | 0.953             | 3.812  | 712     | --   |                 | 712                      | 712   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 6.61              | 26.44  |         | E    |                 | 3.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.176             | 0.704  | 70.4    | --   |                 | 70.4                     | 70.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 75.4              | 72.0  | 7.9       | 6.3   | 83.3         | 78.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 573 PE Med Std PEM-F-4

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.689             | 2.756  | 6.26    | NJ   |                 | 3.1                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.49              | 1.96   | 54      | --   |                 | 54                       | 54    | 1              | 54.0                  | 54.0  | 39.5%                | 41.2% |
| 1,2,3,7,8-PeCDF     | 0.205             | 0.82   | 36.9    | --   |                 | 36.9                     | 36.9  | 0.05           | 1.8                   | 1.8   | 1.3%                 | 1.4%  |
| 2,3,4,7,8-PeCDF     | 0.192             | 0.768  | 0.895   | --   |                 | 0.9                      | 0.9   | 0.5            | 0.5                   | 0.5   | 0.3%                 | 0.3%  |
| 1,2,3,7,8-PeCDD     | 0.319             | 1.276  | 49.2    | --   |                 | 49.2                     | 49.2  | 1              | 49.2                  | 49.2  | 36.0%                | 37.5% |
| 1,2,3,4,7,8-HxCDF   | 0.433             | 1.732  | 42.1    | --   |                 | 42.1                     | 42.1  | 0.1            | 4.2                   | 4.2   | 3.1%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDF   | 0.374             | 1.496  | 2.67    | --   |                 | 2.7                      | 2.7   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.608             | 2.432  | 34.2    | --   |                 | 34.2                     | 34.2  | 0.1            | 3.4                   | 3.4   | 2.5%                 | 2.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.903             | 3.612  | 8.67    | --   |                 | 8.7                      | 8.7   | 0.1            | 0.9                   | 0.9   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.126             | 0.504  | 38.6    | --   |                 | 38.6                     | 38.6  | 0.1            | 3.9                   | 3.9   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.105             | 0.42   | 3.56    | --   |                 | 3.6                      | 3.6   | 0.1            | 0.4                   | 0.4   | 0.3%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.106             | 0.424  | 55      | J    |                 | 55                       | 27.5  | 0.1            | 5.5                   | 2.8   | 4.0%                 | 2.1%  |
| 1,2,3,4,6,7,8-HpCDF | 46.2              | 184.8  |         | D    | <5x*B           | 11.6                     |       | 0.01           | 0.1                   |       | 0.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.205             | 0.82   | 27.5    | --   |                 | 27.5                     | 27.5  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0994            | 0.3976 | 45.3    | --   |                 | 45.3                     | 45.3  | 0.01           | 0.5                   | 0.5   | 0.3%                 | 0.3%  |
| OCDF                | 0.185             | 0.74   | 181     | --   |                 | 181                      | 181   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.16              | 0.64   | 346     | --   |                 | 346                      | 346   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 1.24              | 4.96   | 256     | J    |                 | 256                      | 128   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.24              | 4.96   | 10.1    | J    |                 | 10.1                     | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 291               | 1160   | 10700   | SJ   |                 | 10700                    | 5350  | 0.0001         | 1.1                   | 0.5   | 0.8%                 | 0.4%  |
| PCB-114             | 284               | 1140   | 635     | SJ   |                 | 635                      | 158.8 | 0.0005         | 0.3                   | 0.1   | 0.2%                 | 0.1%  |
| PCB-118             | 247               | 988    | 14500   | SJE  |                 | 14500                    | 7250  | 0.0001         | 1.5                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-123             | 262               | 1050   |         | --   | <5x*B           | 131                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 5.69              | 22.76  | 67.6    | --   |                 | 67.6                     | 67.6  | 0.1            | 6.8                   | 6.8   | 4.9%                 | 5.2%  |
| PCB-156             | 21                | 84     | 2960    | SJ   |                 | 2960                     | 1480  | 0.0005         | 1.5                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 22.4              | 89.6   | 689     | SJ   |                 | 689                      | 344.5 | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.1%  |
| PCB-167             | 21                | 84     | 1220    | SJ   |                 | 1220                     | 610   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 8.65              | 34.6   |         | E    |                 | 4.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 7.6               | 30.4   | 120     | --   |                 | 120                      | 120   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 125.3             | 122.2 | 11.5      | 9.0   | 136.8        | 131.2 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 590 PE Med Std PEM-F-7

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0272            | 0.1088 | 5.19    | NJ   |                 | 2.6                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0319            | 0.1276 | 49.3    | --   |                 | 49.3                     | 49.3  | 1              | 49.3                  | 49.3  | 39.8%                | 40.6% |
| 1,2,3,7,8-PeCDF     | 0.048             | 0.192  | 33.8    | --   |                 | 33.8                     | 33.8  | 0.05           | 1.7                   | 1.7   | 1.4%                 | 1.4%  |
| 2,3,4,7,8-PeCDF     | 0.0453            | 0.1812 | 0.857   | --   |                 | 0.9                      | 0.9   | 0.5            | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.0736            | 0.2944 | 41.6    | --   |                 | 41.6                     | 41.6  | 1              | 41.6                  | 41.6  | 33.6%                | 34.3% |
| 1,2,3,4,7,8-HxCDF   | 0.0219            | 0.0876 | 36.4    | --   |                 | 36.4                     | 36.4  | 0.1            | 3.6                   | 3.6   | 2.9%                 | 3.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0196            | 0.0784 | 1.77    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0914            | 0.3656 | 30.2    | I    |                 | 30.2                     | 30.2  | 0.1            | 3.0                   | 3.0   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0277            | 0.1108 | 7.31    | --   |                 | 7.3                      | 7.3   | 0.1            | 0.7                   | 0.7   | 0.6%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0264            | 0.1056 | 34.8    | --   |                 | 34.8                     | 34.8  | 0.1            | 3.5                   | 3.5   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0221            | 0.0884 | 2.58    | --   |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0263            | 0.1052 | 79      | --   |                 | 79                       | 79    | 0.1            | 7.9                   | 7.9   | 6.4%                 | 6.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0256            | 0.1024 | 38.6    | J    |                 | 38.6                     | 19.3  | 0.01           | 0.4                   | 0.2   | 0.3%                 | 0.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0462            | 0.1848 | 23.3    | --   |                 | 23.3                     | 23.3  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0582            | 0.2328 | 41.2    | --   |                 | 41.2                     | 41.2  | 0.01           | 0.4                   | 0.4   | 0.3%                 | 0.3%  |
| OCDF                | 0.0898            | 0.3592 | 123     | J    |                 | 123                      | 61.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0885            | 0.354  | 320     | --   |                 | 320                      | 320   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 1.59              | 6.36   | 190     | --   |                 | 190                      | 190   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.8               | 7.2    |         | --   |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 18                | 72     | 10700   | CJ   |                 | 10700                    | 5350  | 0.0001         | 1.1                   | 0.5   | 0.9%                 | 0.4%  |
| PCB-114             | 17.9              | 71.6   | 671     | --   |                 | 671                      | 671   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-118             | 15.7              | 62.8   | 15300   | SJ   |                 | 15300                    | 7650  | 0.0001         | 1.5                   | 0.8   | 1.2%                 | 0.6%  |
| PCB-123             | 17.6              | 70.4   | 594     | --   |                 | 594                      | 594   | 0.0001         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-126             | 3.06              | 12.24  | 55.3    | --   |                 | 55.3                     | 55.3  | 0.1            | 5.5                   | 5.5   | 4.5%                 | 4.6%  |
| PCB-156             | 1.29              | 5.16   | 2760    | CJ   |                 | 2760                     | 1380  | 0.0005         | 1.4                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 1.36              | 5.44   | 672     | --   |                 | 672                      | 672   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-167             | 1.25              | 5      | 1120    | CJ   |                 | 1120                     | 560   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 7.86              | 31.44  |         | E    |                 | 3.9                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.349             | 1.396  | 103     | --   |                 | 103                      | 103   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 113.6             | 113.1 | 10.2      | 8.2   | 123.8        | 121.3 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 626 | PE Med Std | PEM-F-9 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0538            | 0.2152 | 5.8     | NJ   |                 | 2.9                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.062             | 0.248  | 50.6    | --   |                 | 50.6                     | 50.6  | 1              | 50.6                  | 50.6  | 39.9%                | 40.8% |
| 1,2,3,7,8-PeCDF     | 0.903             | 3.612  | 36.5    | --   |                 | 36.5                     | 36.5  | 0.05           | 1.8                   | 1.8   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 0.735             | 2.94   | 0.914   | --   |                 | 0.9                      | 0.5   | 0.5            | 0.5                   | 0.3   | 0.4%                 | 0.2%  |
| 1,2,3,7,8-PeCDD     | 0.0728            | 0.2912 | 44.8    | --   |                 | 44.8                     | 44.8  | 1              | 44.8                  | 44.8  | 35.3%                | 36.2% |
| 1,2,3,4,7,8-HxCDF   | 0.449             | 1.796  | 38.8    | --   |                 | 38.8                     | 38.8  | 0.1            | 3.9                   | 3.9   | 3.1%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.423             | 1.692  | 2.19    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.643             | 2.572  | 31.3    | --   |                 | 31.3                     | 31.3  | 0.1            | 3.1                   | 3.1   | 2.5%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.945             | 3.78   | 8.38    | --   |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0889            | 0.3556 | 35.3    | --   |                 | 35.3                     | 35.3  | 0.1            | 3.5                   | 3.5   | 2.8%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.0787            | 0.3148 | 2.39    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0747            | 0.2988 | 43.1    | --   |                 | 43.1                     | 43.1  | 0.1            | 4.3                   | 4.3   | 3.4%                 | 3.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0743            | 0.2972 | 46      | --   |                 | 46                       | 46    | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.145             | 0.58   | 27      | --   |                 | 27                       | 27    | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.217             | 0.868  | 52.8    | --   |                 | 52.8                     | 52.8  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.128             | 0.512  | 176     | --   |                 | 176                      | 176   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.132             | 0.528  | 548     | --   |                 | 548                      | 548   | 0.0001         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |
| PCB-77              | 1.44              | 5.76   | 188     | --   |                 | 188                      | 188   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.39              | 5.56   | 7.03    | --   |                 | 7                        | 7     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 10.5              | 42     | 11400   | CJ   |                 | 11400                    | 5700  | 0.0001         | 1.1                   | 0.6   | 0.9%                 | 0.5%  |
| PCB-114             | 10.4              | 41.6   | 732     | --   |                 | 732                      | 732   | 0.0005         | 0.4                   | 0.4   | 0.3%                 | 0.3%  |
| PCB-118             | 8.79              | 35.16  | 23200   | SJ   |                 | 23200                    | 11600 | 0.0001         | 2.3                   | 1.2   | 1.8%                 | 0.9%  |
| PCB-123             | 9.89              | 39.56  |         | E    |                 | 4.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.664             | 2.656  | 57.9    | --   |                 | 57.9                     | 57.9  | 0.1            | 5.8                   | 5.8   | 4.6%                 | 4.7%  |
| PCB-156             | 3.79              | 15.16  | 2810    | CJ   |                 | 2810                     | 1405  | 0.0005         | 1.4                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 4                 | 16     | 650     | --   |                 | 650                      | 650   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-167             | 3.68              | 14.72  | 1150    | --   |                 | 1150                     | 1150  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 7.72              | 30.88  |         | E    |                 | 3.9                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.92              | 7.68   | 115     | I    |                 | 115                      | 115   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 115.4             | 114.9 | 11.3      | 9.0   | 126.7        | 123.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 688

PE Med Std PEM-F-11

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0199            | 0.0796 | 6.24    | NJ   |                 | 3.1                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.00962           | 0.0385 | 51.4    | --   |                 | 51.4                     | 51.4  | 1              | 51.4                  | 51.4  | 40.9%                | 42.7% |
| 1,2,3,7,8-PeCDF     | 0.00192           | 0.0077 | 41.4    | --   |                 | 41.4                     | 41.4  | 0.05           | 2.1                   | 2.1   | 1.6%                 | 1.7%  |
| 2,3,4,7,8-PeCDF     | 0.00144           | 0.0058 | 0.955   | --   |                 | 1                        | 1     | 0.5            | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,7,8-PeCDD     | 0.00154           | 0.0062 | 40.2    | --   |                 | 40.2                     | 40.2  | 1              | 40.2                  | 40.2  | 32.0%                | 33.4% |
| 1,2,3,4,7,8-HxCDF   | 0.0487            | 0.1948 | 40.4    | --   |                 | 40.4                     | 40.4  | 0.1            | 4.0                   | 4.0   | 3.2%                 | 3.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.0429            | 0.1716 | 1.63    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0513            | 0.2052 | 30.2    | --   |                 | 30.2                     | 30.2  | 0.1            | 3.0                   | 3.0   | 2.4%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0509            | 0.2036 | 8.74    | --   |                 | 8.7                      | 8.7   | 0.1            | 0.9                   | 0.9   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0173            | 0.0692 | 38.8    | --   |                 | 38.8                     | 38.8  | 0.1            | 3.9                   | 3.9   | 3.1%                 | 3.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0171            | 0.0684 | 3.02    | --   |                 | 3                        | 3     | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.0179            | 0.0716 | 73.7    | --   |                 | 73.7                     | 73.7  | 0.1            | 7.4                   | 7.4   | 5.9%                 | 6.1%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0649            | 0.2596 | 49.8    | --   |                 | 49.8                     | 49.8  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0783            | 0.3132 | 29.3    | --   |                 | 29.3                     | 29.3  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0488            | 0.1952 | 49.7    | --   |                 | 49.7                     | 49.7  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| OCDF                | 0.0186            | 0.0744 | 142     | --   |                 | 142                      | 142   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0178            | 0.0712 | 449     | --   |                 | 449                      | 449   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.181             | 0.724  | 202     | --   |                 | 202                      | 202   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.206             | 0.824  | 8.07    | --   |                 | 8.1                      | 8.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 112               | 448    | 9070    | SJ   |                 | 9070                     | 4535  | 0.0001         | 0.9                   | 0.5   | 0.7%                 | 0.4%  |
| PCB-114             | 112               | 448    | 606     | CJ   |                 | 606                      | 303   | 0.0005         | 0.3                   | 0.2   | 0.2%                 | 0.1%  |
| PCB-118             | 106               | 424    | 11100   | SJ   |                 | 11100                    | 5550  | 0.0001         | 1.1                   | 0.6   | 0.9%                 | 0.5%  |
| PCB-123             | 119               | 476    | 516     | CJ   |                 | 516                      | 258   | 0.0001         | 0.1                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.369             | 1.476  | 60.1    | J    |                 | 60.1                     | 30.1  | 0.1            | 6.0                   | 3.0   | 4.8%                 | 2.5%  |
| PCB-156             | 1.05              | 4.2    | 2800    | CJ   |                 | 2800                     | 1400  | 0.0005         | 1.4                   | 0.7   | 1.1%                 | 0.6%  |
| PCB-157             | 1.11              | 4.44   | 630     | CJ   |                 | 630                      | 315   | 0.0005         | 0.3                   | 0.2   | 0.3%                 | 0.1%  |
| PCB-167             | 1.02              | 4.08   | 924     | CJ   |                 | 924                      | 462   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 9.63              | 38.52  |         | E    |                 | 4.8                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.2               | 0.8    | 115     | --   |                 | 115                      | 115   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 115.5             | 115.2 | 10.1      | 5.2   | 125.6        | 120.4 |

## APPENDIX A5. Results for Quality Control (QC) Samples

Sample ID 712 PE Med Std PEM-F-15

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.103             | 0.412  | 6.34    | NJ   |                 | 3.2                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.045             | 0.18   | 50.5    | --   |                 | 50.5                     | 50.5  | 1              | 50.5                  | 50.5  | 38.8%                | 39.6% |
| 1,2,3,7,8-PeCDF     | 0.067             | 0.268  | 37.1    | --   |                 | 37.1                     | 37.1  | 0.05           | 1.9                   | 1.9   | 1.4%                 | 1.5%  |
| 2,3,4,7,8-PeCDF     | 1.06              | 4.24   |         | E    |                 | 0.5                      |       | 0.5            | 0.3                   |       | 0.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0693            | 0.2772 | 44.6    | --   |                 | 44.6                     | 44.6  | 1              | 44.6                  | 44.6  | 34.3%                | 35.0% |
| 1,2,3,4,7,8-HxCDF   | 0.0969            | 0.3876 | 37.2    | --   |                 | 37.2                     | 37.2  | 0.1            | 3.7                   | 3.7   | 2.9%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0842            | 0.3368 | 1.85    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 0.1%                 | 0.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.0897            | 0.3588 | 30.6    | --   |                 | 30.6                     | 30.6  | 0.1            | 3.1                   | 3.1   | 2.4%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.111             | 0.444  | 8.65    | --   |                 | 8.7                      | 8.7   | 0.1            | 0.9                   | 0.9   | 0.7%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.14              | 0.56   | 36.3    | --   |                 | 36.3                     | 36.3  | 0.1            | 3.6                   | 3.6   | 2.8%                 | 2.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.123             | 0.492  | 2.92    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.132             | 0.528  | 72.4    | --   |                 | 72.4                     | 72.4  | 0.1            | 7.2                   | 7.2   | 5.6%                 | 5.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.171             | 0.684  | 46.8    | --   |                 | 46.8                     | 46.8  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.296             | 1.184  | 28.5    | --   |                 | 28.5                     | 28.5  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.161             | 0.644  | 43.1    | --   |                 | 43.1                     | 43.1  | 0.01           | 0.4                   | 0.4   | 0.3%                 | 0.3%  |
| OCDF                | 0.214             | 0.856  | 130     | J    |                 | 130                      | 65    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.296             | 1.184  | 352     | --   |                 | 352                      | 352   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 0.43              | 1.72   | 204     | --   |                 | 204                      | 204   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.511             | 2.044  | 9.34    | --   |                 | 9.3                      | 9.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 4.88              | 19.52  | 11900   | CJ   |                 | 11900                    | 5950  | 0.0001         | 1.2                   | 0.6   | 0.9%                 | 0.5%  |
| PCB-114             | 5.1               | 20.4   | 672     | --   |                 | 672                      | 672   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-118             | 5.66              | 22.64  | 25700   | CJ   |                 | 25700                    | 12850 | 0.0001         | 2.6                   | 1.3   | 2.0%                 | 1.0%  |
| PCB-123             | 6.43              | 25.72  | 415     | J    |                 | 415                      | 207.5 | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 2.11              | 8.44   | 63.5    | --   |                 | 63.5                     | 63.5  | 0.1            | 6.4                   | 6.4   | 4.9%                 | 5.0%  |
| PCB-156             | 1.58              | 6.32   | 2880    | --   |                 | 2880                     | 2880  | 0.0005         | 1.4                   | 1.4   | 1.1%                 | 1.1%  |
| PCB-157             | 1.63              | 6.52   | 665     | --   |                 | 665                      | 665   | 0.0005         | 0.3                   | 0.3   | 0.3%                 | 0.3%  |
| PCB-167             | 1.61              | 6.44   | 1090    | --   |                 | 1090                     | 1090  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 9.95              | 39.8   |         | E    | <5x*B           | 5                        |       | 0.01           | 0.1                   |       | 0.0%                 |       |
| PCB-189             | 0.696             | 2.784  | 114     | --   |                 | 114                      | 114   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 117.8             | 117.2 | 12.3      | 10.3  | 130.1        | 127.5 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 775               | PE Med Std | PEM-B   | Replaced 'S' in result column with 10x the QL for PCB-118. |                 |                          |       |          |                       |       |                      |       |  |
|---------------------|-------------------|------------|---------|--|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|--|
| Analyte             | Analytical Limits |            | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |
|                     | EDL               | QL         | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |  |
| 2,3,7,8-TCDF        | 0.386             | 1.544      | 4.68    | NJ   |                 | 2.3                      |       | 0.1      | 0.2                   |       | 0.2%                 |       |  |
| 2,3,7,8-TCDD        | 0.244             | 0.976      | 36      | --   |                 | 36                       | 36    | 1        | 36.0                  | 36.0  | 38.9%                | 47.7% |  |
| 1,2,3,7,8-PeCDF     | 0.187             | 0.748      | 29.2    | --   |                 | 29.2                     | 29.2  | 0.05     | 1.5                   | 1.5   | 1.6%                 | 1.9%  |  |
| 2,3,4,7,8-PeCDF     | 0.172             | 0.688      | 0.686   | J  |                 | 0.7                      | 0.2   | 0.5      | 0.4                   | 0.1   | 0.4%                 | 0.1%  |  |
| 1,2,3,7,8-PeCDD     | 0.162             | 0.648      | 32.8    | J  |                 | 32.8                     | 16.4  | 1        | 32.8                  | 16.4  | 35.4%                | 21.7% |  |
| 1,2,3,4,7,8-HxCDF   | 0.0964            | 0.3856     | 31.2    | --   |                 | 31.2                     | 31.2  | 0.1      | 3.1                   | 3.1   | 3.4%                 | 4.1%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.123             | 0.492      | 1.23    | B  | <5x*B           | 1.2                      | 0.6   | 0.1      | 0.1                   | 0.1   | 0.1%                 | 0.1%  |  |
| 2,3,4,6,7,8-HxCDF   | 0.102             | 0.408      | 23.6    | --   |                 | 23.6                     | 23.6  | 0.1      | 2.4                   | 2.4   | 2.5%                 | 3.1%  |  |
| 1,2,3,7,8,9-HxCDF   | 0.131             | 0.524      | 6.28    | --   |                 | 6.3                      | 6.3   | 0.1      | 0.6                   | 0.6   | 0.7%                 | 0.8%  |  |
| 1,2,3,4,7,8-HxCDD   | 0.16              | 0.64       | 27.2    | --   |                 | 27.2                     | 27.2  | 0.1      | 2.7                   | 2.7   | 2.9%                 | 3.6%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.139             | 0.556      | 2.15    | --   |                 | 2.2                      | 2.2   | 0.1      | 0.2                   | 0.2   | 0.2%                 | 0.3%  |  |
| 1,2,3,7,8,9-HxCDD   | 0.138             | 0.552      | 50.2    | --   |                 | 50.2                     | 50.2  | 0.1      | 5.0                   | 5.0   | 5.4%                 | 6.7%  |  |
| 1,2,3,4,6,7,8-HpCDF | 32.8              | 131.2      |         | D  |                 | 8.2                      |       | 0.01     | 0.1                   |       | 0.1%                 |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.166             | 0.664      | 19.4    | --   |                 | 19.4                     | 19.4  | 0.01     | 0.2                   | 0.2   | 0.2%                 | 0.3%  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.105             | 0.42       | 29.6    | --   |                 | 29.6                     | 29.6  | 0.01     | 0.3                   | 0.3   | 0.3%                 | 0.4%  |  |
| OCDF                | 0.188             | 0.752      | 99.3    | --   |                 | 99.3                     | 99.3  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| OCDD                | 0.101             | 0.404      | 232     | --   |                 | 232                      | 232   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-77              | 3.42              | 13.68      | 168     | --   |                 | 168                      | 168   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-81              | 3.76              | 15.04      |         | --   | <5x*B           | 1.9                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |  |
| PCB-105             | 234               | 936        | 8000    | C  |                 | 8000                     | 8000  | 0.0001   | 0.8                   | 0.8   | 0.9%                 | 1.1%  |  |
| PCB-114             | 229               | 916        | 507     | C  |                 | 507                      | 253.5 | 0.0005   | 0.3                   | 0.1   | 0.3%                 | 0.2%  |  |
| PCB-118             | 209               | 836        |         | SJ   | <5x*B           | 104.5                    |       | 0.0001   | 0.0                   |       | 0.0%                 |       |  |
| PCB-123             | 222               | 888        | 400     | --   |                 | 400                      | 200   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-126             | 4                 | 16         | 45.9    | --   |                 | 45.9                     | 45.9  | 0.1      | 4.6                   | 4.6   | 5.0%                 | 6.1%  |  |
| PCB-156             | 5.03              | 20.12      | 2020    | C  |                 | 2020                     | 2020  | 0.0005   | 1.0                   | 1.0   | 1.1%                 | 1.3%  |  |
| PCB-157             | 4.99              | 19.96      | 431     | --   |                 | 431                      | 431   | 0.0005   | 0.2                   | 0.2   | 0.2%                 | 0.3%  |  |
| PCB-167             | 5.39              | 21.56      | 893     | C  |                 | 893                      | 893   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |
| PCB-169             | 6.44              | 25.76      |         | E  |                 | 3.2                      |       | 0.01     | 0.0                   |       | 0.0%                 |       |  |
| PCB-189             | 1.25              | 5          | 74      | --   |                 | 74                       | 74    | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 85.6              | 68.6  | 6.9       | 6.7   | 92.5         | 75.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 813 | PE Med Std | PEM-F-8 |
|-----------|-----|------------|---------|
|-----------|-----|------------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0523            | 0.2092 | 6.19    | NJ   |                 | 3.1                      |       | 0.1            | 0.3                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0858            | 0.3432 | 57.9    | --   |                 | 57.9                     | 57.9  | 1              | 57.9                  | 57.9  | 42.2%                | 44.3% |
| 1,2,3,7,8-PeCDF     | 0.538             | 2.152  | 36.2    | --   |                 | 36.2                     | 36.2  | 0.05           | 1.8                   | 1.8   | 1.3%                 | 1.4%  |
| 2,3,4,7,8-PeCDF     | 0.465             | 1.86   | 0.895   | --   |                 | 0.9                      | 0.4   | 0.5            | 0.5                   | 0.2   | 0.3%                 | 0.2%  |
| 1,2,3,7,8-PeCDD     | 0.12              | 0.48   | 44.1    | --   |                 | 44.1                     | 44.1  | 1              | 44.1                  | 44.1  | 32.2%                | 33.7% |
| 1,2,3,4,7,8-HxCDF   | 0.258             | 1.032  | 38.5    | --   |                 | 38.5                     | 38.5  | 0.1            | 3.9                   | 3.9   | 2.8%                 | 2.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.227             | 0.908  | 2.23    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.277             | 1.108  | 31.3    | --   |                 | 31.3                     | 31.3  | 0.1            | 3.1                   | 3.1   | 2.3%                 | 2.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.289             | 1.156  | 7.99    | --   |                 | 8                        | 8     | 0.1            | 0.8                   | 0.8   | 0.6%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0735            | 0.294  | 40.6    | --   |                 | 40.6                     | 40.6  | 0.1            | 4.1                   | 4.1   | 3.0%                 | 3.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.0615            | 0.246  | 2.55    | --   |                 | 2.6                      | 2.6   | 0.1            | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,7,8,9-HxCDD   | 0.059             | 0.236  | 67.4    | --   |                 | 67.4                     | 67.4  | 0.1            | 6.7                   | 6.7   | 4.9%                 | 5.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.084             | 0.336  | 48.3    | --   |                 | 48.3                     | 48.3  | 0.01           | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.116             | 0.464  | 27.2    | --   |                 | 27.2                     | 27.2  | 0.01           | 0.3                   | 0.3   | 0.2%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.129             | 0.516  | 45.5    | --   |                 | 45.5                     | 45.5  | 0.01           | 0.5                   | 0.5   | 0.3%                 | 0.3%  |
| OCDF                | 0.0998            | 0.3992 | 145     | --   |                 | 145                      | 145   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.093             | 0.372  | 384     | --   |                 | 384                      | 384   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-77              | 1.99              | 7.96   | 205     | --   |                 | 205                      | 205   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 2.12              | 8.48   | 8.18    | --   |                 | 8.2                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 10.6              | 42.4   | 11400   | CJ   |                 | 11400                    | 5700  | 0.0001         | 1.1                   | 0.6   | 0.8%                 | 0.4%  |
| PCB-114             | 10.5              | 42     | 976     | --   |                 | 976                      | 976   | 0.0005         | 0.5                   | 0.5   | 0.4%                 | 0.4%  |
| PCB-118             | 9.4               | 37.6   | 17500   | SJ   |                 | 17500                    | 8750  | 0.0001         | 1.8                   | 0.9   | 1.3%                 | 0.7%  |
| PCB-123             | 537               | 2148   |         | E    |                 | 268.5                    |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.43              | 5.72   | 69.1    | J    |                 | 69.1                     | 34.6  | 0.1            | 6.9                   | 3.5   | 5.0%                 | 2.6%  |
| PCB-156             | 1.74              | 6.96   | 2870    | CJ   |                 | 2870                     | 1435  | 0.0005         | 1.4                   | 0.7   | 1.0%                 | 0.5%  |
| PCB-157             | 1.83              | 7.32   | 673     | --   |                 | 673                      | 673   | 0.0005         | 0.3                   | 0.3   | 0.2%                 | 0.3%  |
| PCB-167             | 1.69              | 6.76   | 1050    | --   |                 | 1050                     | 1050  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 8.54              | 34.16  |         | E    |                 | 4.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.591             | 2.364  | 108     | --   |                 | 108                      | 108   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 125.0             | 124.4 | 12.0      | 6.5   | 137.0        | 130.9 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00802           | PE Med Std | PEM     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.188             | 0.752      | 4.17    | NJ   |                 | 2.1                      |       | 0.1            | 0.2                   |       | 0.2%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.105             | 0.42       | 34      | --   |                 | 34                       | 34    | 1              | 34.0                  | 34.0  | 39.9%                | 42.0% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0712            | 0.2848     | 24      | --   |                 | 24                       | 24    | 0.05           | 1.2                   | 1.2   | 1.4%                 | 1.5%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.612             | 2.448      |         | E    |                 | 0.3                      |       | 0.5            | 0.2                   |       | 0.2%                 |       |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.062             | 0.248      | 28.7    | --   |                 | 28.7                     | 28.7  | 1              | 28.7                  | 28.7  | 33.7%                | 35.5% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.231             | 0.924      | 25.5    | --   |                 | 25.5                     | 25.5  | 0.1            | 2.6                   | 2.6   | 3.0%                 | 3.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.202             | 0.808      | 1.55    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.257             | 1.028      | 21.2    | --   |                 | 21.2                     | 21.2  | 0.1            | 2.1                   | 2.1   | 2.5%                 | 2.6%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.401             | 1.604      | 5.24    | --   |                 | 5.2                      | 5.2   | 0.1            | 0.5                   | 0.5   | 0.6%                 | 0.6%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0766            | 0.3064     | 24.4    | --   |                 | 24.4                     | 24.4  | 0.1            | 2.4                   | 2.4   | 2.9%                 | 3.0%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0697            | 0.2788     | 1.86    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0691            | 0.2764     | 39.6    | --   |                 | 39.6                     | 39.6  | 0.1            | 4.0                   | 4.0   | 4.6%                 | 4.9%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.194             | 0.776      | 30      | --   |                 | 30                       | 30    | 0.01           | 0.3                   | 0.3   | 0.4%                 | 0.4%  |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.413             | 1.652      | 19.4    | --   |                 | 19.4                     | 19.4  | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.704             | 2.816      | 28.4    | --   |                 | 28.4                     | 28.4  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.4%  |      |       |      |       |
| OCDF                | 0.0813            | 0.3252     | 98.9    | --   |                 | 98.9                     | 98.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.0982            | 0.3928     | 227     | --   |                 | 227                      | 227   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-77              | 8.78              | 35.12      | 164     | --   |                 | 164                      | 164   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 7.72              | 30.88      | 4.6     | J    |                 | 3.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-105             | 18.4              | 73.6       | 8350    | CJ   |                 | 8350                     | 4175  | 0.0001         | 0.8                   | 0.4   | 1.0%                 | 0.5%  |      |       |      |       |
| PCB-114             | 18.1              | 72.4       | 510     | CJ   |                 | 510                      | 255   | 0.0005         | 0.3                   | 0.1   | 0.3%                 | 0.2%  |      |       |      |       |
| PCB-118             | 15.2              | 60.8       | 14000   | SJ   |                 | 14000                    | 7000  | 0.0001         | 1.4                   | 0.7   | 1.6%                 | 0.9%  |      |       |      |       |
| PCB-123             | 16.7              | 66.8       | 294     | --   |                 | 294                      | 294   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-126             | 19.9              | 79.6       | 44      | --   |                 | 44                       | 22    | 0.1            | 4.4                   | 2.2   | 5.2%                 | 2.7%  |      |       |      |       |
| PCB-156             | 1.03              | 4.12       | 2020    | CJ   |                 | 2020                     | 1010  | 0.0005         | 1.0                   | 0.5   | 1.2%                 | 0.6%  |      |       |      |       |
| PCB-157             | 1.07              | 4.28       | 460     | --   |                 | 460                      | 460   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-167             | 0.943             | 3.772      | 773     | CJ   |                 | 773                      | 386.5 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 5.44              | 21.76      |         | E    |                 | 2.7                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.978             | 3.912      | 79.7    | I    |                 | 79.7                     | 79.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 77.1              | 76.7  | 8.1       | 4.1   | 85.2         | 80.8  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00807           | PE Med Std | PEM     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0199            | 0.0796     | 4.04    | NJ   |                 | 2                        |       | 0.1            | 0.2                   |       | 0.2%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0103            | 0.0412     | 32.5    | --   |                 | 32.5                     | 32.5  | 1              | 32.5                  | 32.5  | 40.0%                | 40.9% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0204            | 0.0816     | 25      | --   |                 | 25                       | 25    | 0.05           | 1.3                   | 1.3   | 1.5%                 | 1.6%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0164            | 0.0656     | 0.597   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 0.4%                 | 0.4%  |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.00791           | 0.0316     | 27.3    | --   |                 | 27.3                     | 27.3  | 1              | 27.3                  | 27.3  | 33.6%                | 34.3% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0382            | 0.1528     | 25.4    | --   |                 | 25.4                     | 25.4  | 0.1            | 2.5                   | 2.5   | 3.1%                 | 3.2%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0334            | 0.1336     | 1.09    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 0.1%                 | 0.1%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0473            | 0.1892     | 20      | --   |                 | 20                       | 20    | 0.1            | 2.0                   | 2.0   | 2.5%                 | 2.5%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0707            | 0.2828     | 5.19    | --   |                 | 5.2                      | 5.2   | 0.1            | 0.5                   | 0.5   | 0.6%                 | 0.7%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0205            | 0.082      | 23.3    | --   |                 | 23.3                     | 23.3  | 0.1            | 2.3                   | 2.3   | 2.9%                 | 2.9%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0185            | 0.074      | 1.89    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.02              | 0.08       | 33.8    | --   |                 | 33.8                     | 33.8  | 0.1            | 3.4                   | 3.4   | 4.2%                 | 4.3%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.126             | 0.504      | 31.7    | --   |                 | 31.7                     | 31.7  | 0.01           | 0.3                   | 0.3   | 0.4%                 | 0.4%  |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.225             | 0.9        | 18      | --   |                 | 18                       | 18    | 0.01           | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0316            | 0.1264     | 27      | --   |                 | 27                       | 27    | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.3%  |      |       |      |       |
| OCDF                | 0.0904            | 0.3616     | 102     | --   |                 | 102                      | 102   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.0497            | 0.1988     | 199     | --   |                 | 199                      | 199   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-77              | 0.424             | 1.696      | 148     | --   |                 | 148                      | 148   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 0.427             | 1.708      | 6.1     | --   |                 | 6.1                      | 6.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-105             | 23.1              | 92.4       | 7410    | CJ   |                 | 7410                     | 3705  | 0.0001         | 0.7                   | 0.4   | 0.9%                 | 0.5%  |      |       |      |       |
| PCB-114             | 23                | 92         | 428     | --   |                 | 428                      | 428   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-118             | 20.9              | 83.6       | 14700   | SJ   |                 | 14700                    | 7350  | 0.0001         | 1.5                   | 0.7   | 1.8%                 | 0.9%  |      |       |      |       |
| PCB-123             | 23.5              | 94         | --      |      |                 | 11.8                     |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-126             | 6.24              | 24.96      | 42.2    | --   |                 | 42.2                     | 42.2  | 0.1            | 4.2                   | 4.2   | 5.2%                 | 5.3%  |      |       |      |       |
| PCB-156             | 0.961             | 3.844      | 1940    | CJ   |                 | 1940                     | 970   | 0.0005         | 1.0                   | 0.5   | 1.2%                 | 0.6%  |      |       |      |       |
| PCB-157             | 1.01              | 4.04       | 436     | --   |                 | 436                      | 436   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-167             | 0.934             | 3.736      | 756     | CJ   |                 | 756                      | 378   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 5.21              | 20.84      | E       |      |                 | 2.6                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.731             | 2.924      | 71.6    | --   |                 | 71.6                     | 71.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 73.4              | 73.2  | 7.8       | 6.2   | 81.2         | 79.4  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | PC00820           | PE Med Std | PEM     |      |                 |                          |       |                |                       |       |                      |       |      |       |      |       |
|---------------------|-------------------|------------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|
| Analyte             | Analytical Limits |            | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |
|                     | EDL               | QL         | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0678            | 0.2712     | 4.59    | NJ   |                 | 2.3                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |      |       |      |       |
| 2,3,7,8-TCDD        | 0.0267            | 0.1068     | 31.5    | --   |                 | 31.5                     | 31.5  | 1              | 31.5                  | 31.5  | 37.1%                | 40.2% |      |       |      |       |
| 1,2,3,7,8-PeCDF     | 0.0594            | 0.2376     | 25.8    | --   |                 | 25.8                     | 25.8  | 0.05           | 1.3                   | 1.3   | 1.5%                 | 1.6%  |      |       |      |       |
| 2,3,4,7,8-PeCDF     | 0.0401            | 0.1604     | 0.749   | --   |                 | 0.7                      | 0.7   | 0.5            | 0.4                   | 0.4   | 0.4%                 | 0.4%  |      |       |      |       |
| 1,2,3,7,8-PeCDD     | 0.061             | 0.244      | 29.8    | I    |                 | 29.8                     | 29.8  | 1              | 29.8                  | 29.8  | 35.1%                | 38.0% |      |       |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.0612            | 0.2448     | 25.9    | --   |                 | 25.9                     | 25.9  | 0.1            | 2.6                   | 2.6   | 3.0%                 | 3.3%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.0469            | 0.1876     | 1.62    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.2%  |      |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.0622            | 0.2488     | 22.3    | --   |                 | 22.3                     | 22.3  | 0.1            | 2.2                   | 2.2   | 2.6%                 | 2.8%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.0961            | 0.3844     | 5.59    | --   |                 | 5.6                      | 5.6   | 0.1            | 0.6                   | 0.6   | 0.7%                 | 0.7%  |      |       |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.0616            | 0.2464     | 21.1    | --   |                 | 21.1                     | 21.1  | 0.1            | 2.1                   | 2.1   | 2.5%                 | 2.7%  |      |       |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0447            | 0.1788     | 2.05    | --   |                 | 2.1                      | 2.1   | 0.1            | 0.2                   | 0.2   | 0.2%                 | 0.3%  |      |       |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0537            | 0.2148     | 43.8    | J    |                 | 43.8                     | 21.9  | 0.1            | 4.4                   | 2.2   | 5.2%                 | 2.8%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0311            | 0.1244     | 28.8    | --   |                 | 28.8                     | 28.8  | 0.01           | 0.3                   | 0.3   | 0.3%                 | 0.4%  |      |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0734            | 0.2936     | 14.8    | --   |                 | 14.8                     | 14.8  | 0.01           | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0861            | 0.3444     | 24      | --   |                 | 24                       | 24    | 0.01           | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| OCDF                | 0.0403            | 0.1612     | 29.5    | J    |                 | 29.5                     | 14.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| OCDD                | 0.0559            | 0.2236     | 178     | --   |                 | 178                      | 178   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-77              | 0.0968            | 0.3872     | 166     | --   |                 | 166                      | 166   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-81              | 0.108             | 0.432      | 6.77    | --   |                 | 6.8                      | 6.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-105             | 16.4              | 65.6       | 7990    | CJ   |                 | 7990                     | 3995  | 0.0001         | 0.8                   | 0.4   | 0.9%                 | 0.5%  |      |       |      |       |
| PCB-114             | 17.2              | 68.8       | 469     | --   |                 | 469                      | 469   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-118             | 19.5              | 78         | 16000   | SJ   |                 | 16000                    | 8000  | 0.0001         | 1.6                   | 0.8   | 1.9%                 | 1.0%  |      |       |      |       |
| PCB-123             | 22.2              | 88.8       | 268     | --   |                 | 268                      | 268   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-126             | 1.9               | 7.6        | 49.5    | J    |                 | 49.5                     | 24.8  | 0.1            | 5.0                   | 2.5   | 5.8%                 | 3.2%  |      |       |      |       |
| PCB-156             | 2.26              | 9.04       | 2000    | CJ   |                 | 2000                     | 1000  | 0.0005         | 1.0                   | 0.5   | 1.2%                 | 0.6%  |      |       |      |       |
| PCB-157             | 2.34              | 9.36       | 453     | --   |                 | 453                      | 453   | 0.0005         | 0.2                   | 0.2   | 0.3%                 | 0.3%  |      |       |      |       |
| PCB-167             | 2.3               | 9.2        | 751     | CJ   |                 | 751                      | 375.5 | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |
| PCB-169             | 6.29              | 25.16      |         | E    |                 | 3.1                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |
| PCB-189             | 0.221             | 0.884      | 71.8    | --   |                 | 71.8                     | 71.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 76.1              | 73.7  | 8.8       | 4.6   | 84.9         | 78.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 282-R             | Replicate | SP-3    | Biased replicate sample; reanalyzed due to high results. |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|--|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.289             | 1.156     | 9.21    | NJ   |                 | 4.6                      |       | 0.1            | 0.5                   |       | 1.3%                 |       |
| 2,3,7,8-TCDD        | 0.0493            | 0.1972    | 0.958   | --   |                 | 1                        | 1     | 1              | 1.0                   | 1.0   | 2.8%                 | 3.1%  |
| 1,2,3,7,8-PeCDF     | 0.0999            | 0.3996    | 52.1    | --   |                 | 52.1                     | 52.1  | 0.05           | 2.6                   | 2.6   | 7.4%                 | 8.0%  |
| 2,3,4,7,8-PeCDD     | 0.0717            | 0.2868    | 7.08    | --   |                 | 7.1                      | 7.1   | 0.5            | 3.6                   | 3.6   | 10.1%                | 10.9% |
| 1,2,3,7,8-PeCDD     | 0.108             | 0.432     | 1.45    | --   |                 | 1.5                      | 1.5   | 1              | 1.5                   | 1.5   | 4.3%                 | 4.6%  |
| 1,2,3,4,7,8-HxCDF   | 0.167             | 0.668     | 89.6    | --   |                 | 89.6                     | 89.6  | 0.1            | 9.0                   | 9.0   | 25.5%                | 27.5% |
| 1,2,3,6,7,8-HxCDF   | 0.132             | 0.528     | 48.3    | --   |                 | 48.3                     | 48.3  | 0.1            | 4.8                   | 4.8   | 13.7%                | 14.8% |
| 2,3,4,6,7,8-HxCDF   | 0.169             | 0.676     | 23.1    | --   |                 | 23.1                     | 23.1  | 0.1            | 2.3                   | 2.3   | 6.6%                 | 7.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.22              | 0.88      | 19.5    | --   |                 | 19.5                     | 19.5  | 0.1            | 2.0                   | 2.0   | 5.5%                 | 6.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.127             | 0.508     | 1.32    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.083             | 0.332     | 2.19    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.6%                 | 0.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.105             | 0.42      | 1.63    | J  |                 | 1.6                      | 0.8   | 0.1            | 0.2                   | 0.1   | 0.5%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0545            | 0.218     | 217     | --   |                 | 217                      | 217   | 0.01           | 2.2                   | 2.2   | 6.2%                 | 6.6%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0741            | 0.2964    | 95.9    | --   |                 | 95.9                     | 95.9  | 0.01           | 1.0                   | 1.0   | 2.7%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.123             | 0.492     | 27.2    | --   |                 | 27.2                     | 27.2  | 0.01           | 0.3                   | 0.3   | 0.8%                 | 0.8%  |
| OCDF                | 0.0475            | 0.19      | 1450    | SJ   |                 | 1450                     | 725   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| OCDD                | 0.0631            | 0.2524    | 191     | --   |                 | 191                      | 191   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 0.257             | 1.028     | 703     | CJ   |                 | 703                      | 351.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-81              | 0.241             | 0.964     | 27.7    | --   |                 | 27.7                     | 27.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.76              | 11.04     | 2130    | CJ   |                 | 2130                     | 1065  | 0.0001         | 0.2                   | 0.1   | 0.6%                 | 0.3%  |
| PCB-114             | 2.88              | 11.52     | 118     | J  |                 | 118                      | 59    | 0.0005         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-118             | 3.08              | 12.32     | 3070    | CJ   |                 | 3070                     | 1535  | 0.0001         | 0.3                   | 0.2   | 0.9%                 | 0.5%  |
| PCB-123             | 3.5               | 14        | 115     | J  |                 | 115                      | 57.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.761             | 3.044     | 31.3    | J  |                 | 31.3                     | 15.7  | 0.1            | 3.1                   | 1.6   | 8.9%                 | 4.8%  |
| PCB-156             | 0.727             | 2.908     | 133     | --   |                 | 133                      | 133   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-157             | 0.752             | 3.008     | 34      | --   |                 | 34                       | 34    | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-167             | 0.74              | 2.96      | 63.2    | --   |                 | 63.2                     | 63.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.304             | 1.216     | 2.93    | J  |                 | 2.9                      | 1.5   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-189             | 0.626             | 2.504     | 30.2    | --   |                 | 30.2                     | 30.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 31.4              | 30.8  | 3.9       | 2.0   | 35.3         | 32.8  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 347-R             | Replicate | SP-7    | Biased replicate sample; original sample reanalyzed due to high results. |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|--|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.682             | 2.728     | 20.2    | NJ   |                 | 10.1                     |       | 0.1      | 1.0                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 1.23              | 4.92      |         | E  |                 | 0.6                      |       | 1        | 0.6                   |       | 0.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0821            | 0.3284    | 154     | --   |                 | 154                      | 154   | 0.05     | 7.7                   | 7.7   | 7.4%                 | 8.1%  |
| 2,3,4,7,8-PeCDF     | 0.0646            | 0.2584    | 26.7    | --   |                 | 26.7                     | 26.7  | 0.5      | 13.4                  | 13.4  | 12.8%                | 14.0% |
| 1,2,3,7,8-PeCDD     | 0.0578            | 0.2312    | 8.05    | --   |                 | 8.1                      | 8.1   | 1        | 8.1                   | 8.1   | 7.8%                 | 8.5%  |
| 1,2,3,4,7,8-HxCDF   | 0.132             | 0.528     | 237     | --   |                 | 237                      | 237   | 0.1      | 23.7                  | 23.7  | 22.7%                | 24.8% |
| 1,2,3,6,7,8-HxCDF   | 0.117             | 0.468     | 120     | --   |                 | 120                      | 120   | 0.1      | 12.0                  | 12.0  | 11.5%                | 12.6% |
| 2,3,4,6,7,8-HxCDF   | 0.136             | 0.544     | 43.4    | --   |                 | 43.4                     | 43.4  | 0.1      | 4.3                   | 4.3   | 4.2%                 | 4.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.156             | 0.624     | 60.8    | --   |                 | 60.8                     | 60.8  | 0.1      | 6.1                   | 6.1   | 5.8%                 | 6.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.102             | 0.408     | 11.7    | --   |                 | 11.7                     | 11.7  | 0.1      | 1.2                   | 1.2   | 1.1%                 | 1.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0942            | 0.3768    | 19.2    | --   |                 | 19.2                     | 19.2  | 0.1      | 1.9                   | 1.9   | 1.8%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.102             | 0.408     | 12.2    | --   |                 | 12.2                     | 12.2  | 0.1      | 1.2                   | 1.2   | 1.2%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.263             | 1.052     | 638     | CJ   |                 | 638                      | 319   | 0.01     | 6.4                   | 3.2   | 6.1%                 | 3.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.4               | 1.6       | 282     | --   |                 | 282                      | 282   | 0.01     | 2.8                   | 2.8   | 2.7%                 | 3.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.311             | 1.244     | 533     | CJ   |                 | 533                      | 266.5 | 0.01     | 5.3                   | 2.7   | 5.1%                 | 2.8%  |
| OCDF                | 0.0542            | 0.2168    | 3260    | CJ   |                 | 3260                     | 1630  | 0.0001   | 0.3                   | 0.2   | 0.3%                 | 0.2%  |
| OCDD                | 0.0843            | 0.3372    | 4170    | CJ   |                 | 4170                     | 2085  | 0.0001   | 0.4                   | 0.2   | 0.4%                 | 0.2%  |
| PCB-77              | 1.67              | 6.68      | 217     | --   |                 | 217                      | 217   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.51              | 6.04      | 7.96    | --   |                 | 8                        | 8     | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.75              | 11        | 3250    | CJ   |                 | 3250                     | 1625  | 0.0001   | 0.3                   | 0.2   | 0.3%                 | 0.2%  |
| PCB-114             | 2.74              | 10.96     | 167     | --   |                 | 167                      | 167   | 0.0005   | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-118             | 2.35              | 9.4       | 7050    | CJ   |                 | 7050                     | 3525  | 0.0001   | 0.7                   | 0.4   | 0.7%                 | 0.4%  |
| PCB-123             | 2.64              | 10.56     |         | --   |                 | 1.3                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 5.35              | 21.4      | 57.3    | --   |                 | 57.3                     | 57.3  | 0.1      | 5.7                   | 5.7   | 5.5%                 | 6.0%  |
| PCB-156             | 3.2               | 12.8      | 1310    | CJ   |                 | 1310                     | 655   | 0.0005   | 0.7                   | 0.3   | 0.6%                 | 0.3%  |
| PCB-157             | 3.38              | 13.52     | 315     | --   |                 | 315                      | 315   | 0.0005   | 0.2                   | 0.2   | 0.2%                 | 0.2%  |
| PCB-167             | 3.11              | 12.44     | 608     | CJ   |                 | 608                      | 304   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.38              | 1.52      | 8.85    | --   |                 | 8.9                      | 8.9   | 0.01     | 0.1                   | 0.1   | 0.1%                 | 0.1%  |
| PCB-189             | 4.05              | 16.2      | 183     | --   |                 | 183                      | 183   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 96.4              | 88.7  | 7.8       | 7.0   | 104.2        | 95.7  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 515-R             | Replicate | SP-2    | Biased replicate sample; original sample reanalyzed due to high results. |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|--|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 4.15              | 16.6      | 9.88    | NJ   |                 | 4.9                      |       | 0.1            | 0.5                   |       | 1.9%                 |       |
| 2,3,7,8-TCDD        | 0.719             | 2.876     |         | E  |                 | 0.4                      |       | 1              | 0.4                   |       | 1.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0947            | 0.3788    | 43.5    | --   |                 | 43.5                     | 43.5  | 0.05           | 2.2                   | 2.2   | 8.6%                 | 9.0%  |
| 2,3,4,7,8-PeCDF     | 0.0781            | 0.3124    | 6.91    | --   |                 | 6.9                      | 6.9   | 0.5            | 3.5                   | 3.5   | 13.7%                | 14.2% |
| 1,2,3,7,8-PeCDD     | 0.0866            | 0.3464    | 1.04    | --   |                 | 1                        | 1     | 1              | 1.0                   | 1.0   | 4.0%                 | 4.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.0821            | 0.3284    | 68.7    | --   |                 | 68.7                     | 68.7  | 0.1            | 6.9                   | 6.9   | 27.2%                | 28.3% |
| 1,2,3,6,7,8-HxCDF   | 0.0704            | 0.2816    | 32.6    | --   |                 | 32.6                     | 32.6  | 0.1            | 3.3                   | 3.3   | 12.9%                | 13.4% |
| 2,3,4,6,7,8-HxCDF   | 0.0859            | 0.3436    | 13.3    | --   |                 | 13.3                     | 13.3  | 0.1            | 1.3                   | 1.3   | 5.3%                 | 5.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0867            | 0.3468    | 14.8    | --   |                 | 14.8                     | 14.8  | 0.1            | 1.5                   | 1.5   | 5.9%                 | 6.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.0804            | 0.3216    | 1.5     | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 0.6%                 | 0.6%  |
| 1,2,3,6,7,8-HxCDD   | 0.074             | 0.296     | 1.71    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 0.7%                 | 0.7%  |
| 1,2,3,7,8,9-HxCDD   | 0.0799            | 0.3196    | 1.32    | --   |                 | 1.3                      | 1.3   | 0.1            | 0.1                   | 0.1   | 0.5%                 | 0.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0949            | 0.3796    | 148     | --   |                 | 148                      | 148   | 0.01           | 1.5                   | 1.5   | 5.9%                 | 6.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.149             | 0.596     | 75.2    | --   |                 | 75.2                     | 75.2  | 0.01           | 0.8                   | 0.8   | 3.0%                 | 3.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.137             | 0.548     | 26.7    | --   |                 | 26.7                     | 26.7  | 0.01           | 0.3                   | 0.3   | 1.1%                 | 1.1%  |
| OCDF                | 0.0446            | 0.1784    | 1100    | CJ   |                 | 1100                     | 550   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| OCDD                | 0.0752            | 0.3008    | 187     | --   |                 | 187                      | 187   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-77              | 1.09              | 4.36      | 90.5    | --   |                 | 90.5                     | 90.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 1.21              | 4.84      | 11.8    | --   |                 | 11.8                     | 11.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.98              | 7.92      | 456     | --   |                 | 456                      | 456   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 68.3              | 273.2     |         | E  | <5x*B           | 34.2                     |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 1.63              | 6.52      | 813     | CJ   |                 | 813                      | 406.5 | 0.0001         | 0.1                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-123             | 1.84              | 7.36      |         | --   |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 3.19              | 12.76     | 14.7    | --   |                 | 14.7                     | 14.7  | 0.1            | 1.5                   | 1.5   | 5.8%                 | 6.1%  |
| PCB-156             | 3.2               | 12.8      | 126     | --   |                 | 126                      | 126   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.3%  |
| PCB-157             | 3.37              | 13.48     | 40.6    | --   |                 | 40.6                     | 40.6  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 3.11              | 12.44     | 80.6    | --   |                 | 80.6                     | 80.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.214             | 0.856     | 2.69    | --   |                 | 2.7                      | 2.7   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 5.19              | 20.76     | 24.3    | --   |                 | 24.3                     | 24.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 23.8              | 22.9  | 1.7       | 1.6   | 25.5         | 24.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 523-R             | Replicate | SP-6    | Biased replicate sample; original sample reanalyzed due to high results. |                 |                          |       |          |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|--|-----------------|--------------------------|-------|----------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag   |                 | Full                     | Quant |          | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.43              | 5.72      | 4.53    | NJ   |                 | 2.3                      |       | 0.1      | 0.2                   |       | 1.2%                 |       |
| 2,3,7,8-TCDD        | 0.571             | 2.284     |         | E  |                 | 0.3                      |       | 1        | 0.3                   |       | 1.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0907            | 0.3628    | 20.6    | --   |                 | 20.6                     | 20.6  | 0.05     | 1.0                   | 1.0   | 5.4%                 | 5.7%  |
| 2,3,4,7,8-PeCDF     | 0.0739            | 0.2956    | 4.68    | --   |                 | 4.7                      | 4.7   | 0.5      | 2.4                   | 2.4   | 12.3%                | 13.0% |
| 1,2,3,7,8-PeCDD     | 0.0245            | 0.098     | 1.24    | --   |                 | 1.2                      | 1.2   | 1        | 1.2                   | 1.2   | 6.3%                 | 6.6%  |
| 1,2,3,4,7,8-HxCDF   | 0.0748            | 0.2992    | 36.5    | --   |                 | 36.5                     | 36.5  | 0.1      | 3.7                   | 3.7   | 19.0%                | 20.2% |
| 1,2,3,6,7,8-HxCDF   | 0.0646            | 0.2584    | 16.8    | --   |                 | 16.8                     | 16.8  | 0.1      | 1.7                   | 1.7   | 8.8%                 | 9.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0747            | 0.2988    | 8.57    | --   |                 | 8.6                      | 8.6   | 0.1      | 0.9                   | 0.9   | 4.5%                 | 4.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.0951            | 0.3804    | 8.04    | --   |                 | 8                        | 8     | 0.1      | 0.8                   | 0.8   | 4.2%                 | 4.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0758            | 0.3032    | 1.68    | --   |                 | 1.7                      | 1.7   | 0.1      | 0.2                   | 0.2   | 0.9%                 | 0.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.0842            | 0.3368    | 2.47    | --   |                 | 2.5                      | 2.5   | 0.1      | 0.3                   | 0.3   | 1.3%                 | 1.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.0834            | 0.3336    | 1.53    | --   |                 | 1.5                      | 1.5   | 0.1      | 0.2                   | 0.2   | 0.8%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0606            | 0.2424    | 88.9    | I  |                 | 88.9                     | 88.9  | 0.01     | 0.9                   | 0.9   | 4.6%                 | 4.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0913            | 0.3652    | 37.6    | --   |                 | 37.6                     | 37.6  | 0.01     | 0.4                   | 0.4   | 2.0%                 | 2.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.124             | 0.496     | 54.1    | --   |                 | 54.1                     | 54.1  | 0.01     | 0.5                   | 0.5   | 2.8%                 | 3.0%  |
| OCDF                | 0.0236            | 0.0944    | 565     | --   |                 | 565                      | 565   | 0.0001   | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| OCDD                | 0.0293            | 0.1172    | 439     | --   |                 | 439                      | 439   | 0.0001   | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 0.533             | 2.132     | 162     | --   |                 | 162                      | 162   | 0.0001   | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.481             | 1.924     | 5.5     | --   |                 | 5.5                      | 5.5   | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.81              | 11.24     | 2420    | CJ   |                 | 2420                     | 1210  | 0.0001   | 0.2                   | 0.1   | 1.3%                 | 0.7%  |
| PCB-114             | 2.79              | 11.16     | 196     | --   |                 | 196                      | 196   | 0.0005   | 0.1                   | 0.1   | 0.5%                 | 0.5%  |
| PCB-118             | 2.35              | 9.4       | 5310    | CJ   |                 | 5310                     | 2655  | 0.0001   | 0.5                   | 0.3   | 2.8%                 | 1.5%  |
| PCB-123             | 2.64              | 10.56     |         | --   |                 | 1.3                      |       | 0.0001   | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 4.47              | 17.88     | 31.5    | --   |                 | 31.5                     | 31.5  | 0.1      | 3.2                   | 3.2   | 16.4%                | 17.5% |
| PCB-156             | 1.34              | 5.36      | 850     | CJ   |                 | 850                      | 425   | 0.0005   | 0.4                   | 0.2   | 2.2%                 | 1.2%  |
| PCB-157             | 1.41              | 5.64      | 191     | --   |                 | 191                      | 191   | 0.0005   | 0.1                   | 0.1   | 0.5%                 | 0.5%  |
| PCB-167             | 1.3               | 5.2       | 342     | --   |                 | 342                      | 342   | 0.00001  | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.192             | 0.768     | 3.34    | --   |                 | 3.3                      | 3.3   | 0.01     | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 1.21              | 4.84      | 89.7    | --   |                 | 89.7                     | 89.7  | 0.0001   | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 14.8              | 14.3  | 4.5       | 4.0   | 19.3         | 18.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 555-R             | Replicate | SP-8    | Biased replicate sample; original sample reanalyzed due to high results. |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|--|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |  | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag   |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.55              | 6.2       | 6.16    | NJ   |                 | 3.1                      |       | 0.1            | 0.3                   |       | 1.0%                 |       |
| 2,3,7,8-TCDD        | 0.481             | 1.924     |         | E  |                 | 0.2                      |       | 1              | 0.2                   |       | 0.6%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0613            | 0.2452    | 48.8    | --   |                 | 48.8                     | 48.8  | 0.05           | 2.4                   | 2.4   | 7.9%                 | 8.4%  |
| 2,3,4,7,8-PeCDF     | 0.0465            | 0.186     | 7.89    | --   |                 | 7.9                      | 7.9   | 0.5            | 4.0                   | 4.0   | 12.8%                | 13.5% |
| 1,2,3,7,8-PeCDD     | 1.55              | 6.2       |         | E  |                 | 0.8                      |       | 1              | 0.8                   |       | 2.6%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0884            | 0.3536    | 84.2    | --   |                 | 84.2                     | 84.2  | 0.1            | 8.4                   | 8.4   | 27.3%                | 28.8% |
| 1,2,3,6,7,8-HxCDF   | 0.0764            | 0.3056    | 39.3    | --   |                 | 39.3                     | 39.3  | 0.1            | 3.9                   | 3.9   | 12.7%                | 13.5% |
| 2,3,4,6,7,8-HxCDF   | 0.106             | 0.424     | 18.1    | --   |                 | 18.1                     | 18.1  | 0.1            | 1.8                   | 1.8   | 5.9%                 | 6.2%  |
| 1,2,3,7,8,9-HxCDF   | 0.105             | 0.42      | 18.1    | --   |                 | 18.1                     | 18.1  | 0.1            | 1.8                   | 1.8   | 5.9%                 | 6.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.11              | 0.44      | 2.2     | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.7%                 | 0.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.105             | 0.42      | 4.14    | --   |                 | 4.1                      | 4.1   | 0.1            | 0.4                   | 0.4   | 1.3%                 | 1.4%  |
| 1,2,3,7,8,9-HxCDD   | 3.45              | 13.8      |         | E  |                 | 1.7                      |       | 0.1            | 0.2                   |       | 0.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.161             | 0.644     | 207     | --   |                 | 207                      | 207   | 0.01           | 2.1                   | 2.1   | 6.7%                 | 7.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.244             | 0.976     | 93.8    | --   |                 | 93.8                     | 93.8  | 0.01           | 0.9                   | 0.9   | 3.0%                 | 3.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.318             | 1.272     | 76      | --   |                 | 76                       | 76    | 0.01           | 0.8                   | 0.8   | 2.5%                 | 2.6%  |
| OCDF                | 0.0389            | 0.1556    | 1400    | CJ   |                 | 1400                     | 700   | 0.0001         | 0.1                   | 0.1   | 0.5%                 | 0.2%  |
| OCDD                | 0.143             | 0.572     | 525     | --   |                 | 525                      | 525   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-77              | 0.375             | 1.5       | 133     | --   |                 | 133                      | 133   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.36              | 1.44      | 6.28    | --   |                 | 6.3                      | 6.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.28              | 5.12      | 995     | CJ   |                 | 995                      | 497.5 | 0.0001         | 0.1                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-114             | 1.27              | 5.08      | 82.6    | --   |                 | 82.6                     | 82.6  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 1                 | 4         | 1980    | CJ   |                 | 1980                     | 990   | 0.0001         | 0.2                   | 0.1   | 0.6%                 | 0.3%  |
| PCB-123             | 1.13              | 4.52      |         | --   |                 | 0.6                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 4.62              | 18.48     | 19      | --   |                 | 19                       | 19    | 0.1            | 1.9                   | 1.9   | 6.2%                 | 6.5%  |
| PCB-156             | 1.37              | 5.48      | 274     | --   |                 | 274                      | 274   | 0.0005         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| PCB-157             | 1.44              | 5.76      | 71      | --   |                 | 71                       | 71    | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 1.33              | 5.32      | 131     | --   |                 | 131                      | 131   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.181             | 0.724     | 2.71    | --   |                 | 2.7                      | 2.7   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 3.52              | 14.08     | 42.3    | --   |                 | 42.3                     | 42.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 28.4              | 26.9  | 2.3       | 2.1   | 30.7         | 29.0  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1011              | RMA Clean | RMA-S   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.094             | 0.376     |         | U    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.102             | 0.408     |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 16.0%                |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.162             | 0.648     |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.306             | 1.224     |         | --   |                 | 0.2                      |       | 0.5            | 0.1                   |       | 16.0%                |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.335             | 1.34      |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 32.0%                |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.158             | 0.632     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.215             | 0.86      |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.123             | 0.492     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.119             | 0.476     | 0.56    | BJI  |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 9.6%                 | 58.0% |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.024             | 0.096     | 0.214   | BI   |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.2%                 | 19.3% |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0218            | 0.0872    | 0.0509  | J    |                 | 0.1                      | 0     | 0.1            | 0.0                   | 0.0   | 1.6%                 | 0.0%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0506            | 0.2024    |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.526             | 2.104     |         | D    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.801             | 3.204     |         | --   |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.303             | 1.212     | 1.39    | B    |                 | 1.4                      | 0.7   | 0.01           | 0.0                   | 0.0   | 2.2%                 | 13.5% |      |       |      |
| OCDF                | 0.442             | 1.768     | 1.27    | B    |                 | 1.3                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| OCDD                | 0.352             | 1.408     | 6.78    | B    |                 | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.7%  |      |       |      |
| PCB-77              | 1.51              | 6.04      | 2.76    | B    |                 | 2.8                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |
| PCB-81              | 1.41              | 5.64      |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 1.68              | 6.72      | 13.9    | B    |                 | 13.9                     | 7     | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 1.4%  |      |       |      |
| PCB-114             | 1.56              | 6.24      | 0.546   | --   |                 | 0.8                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-118             | 1.42              | 5.68      | 32.8    | B    |                 | 32.8                     | 16.4  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 3.2%  |      |       |      |
| PCB-123             | 1.45              | 5.8       |         | --   |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 1.4               | 5.6       |         | --   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 11.2%                |       |      |       |      |
| PCB-156             | 0.788             | 3.152     | 3.83    | --   |                 | 3.8                      | 3.8   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 3.7%  |      |       |      |
| PCB-157             | 0.86              | 3.44      |         | E    |                 | 0.4                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-167             | 0.6               | 2.4       | 1.05    | --   |                 | 1.1                      | 0.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.692             | 2.768     |         | --   |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |      |       |      |
| PCB-189             | 0.468             | 1.872     |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.0   | 0.1       | 0.0   | 0.6          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1013              | RMA Clean | RMA-F   |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.42              | 1.68      |         | U    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 3.3%                 |       |
| 2,3,7,8-TCDD        | 0.211             | 0.844     |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 16.5%                |       |
| 1,2,3,7,8-PeCDF     | 0.249             | 0.996     | 0.281   | --   |                 | 0.3                      | 0.1   | 0.05           | 0.0                   | 0.0   | 2.5%                 | 8.9%  |
| 2,3,4,7,8-PeCDF     | 0.284             | 1.136     |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 8.3%                 |       |
| 1,2,3,7,8-PeCDD     | 0.428             | 1.712     |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 33.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.267             | 1.068     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.212             | 0.848     | 0.312   | --   |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.0%                 | 35.6% |
| 2,3,4,6,7,8-HxCDF   | 0.289             | 1.156     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.229             | 0.916     | 0.645   | B    |                 | 0.6                      | 0.2   | 0.1            | 0.1                   | 0.0   | 9.9%                 | 35.6% |
| 1,2,3,4,7,8-HxCDD   | 0.246             | 0.984     |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.157             | 0.628     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.159             | 0.636     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.673             | 2.692     |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.454             | 1.816     |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.139             | 0.556     | 1.28    | B    |                 | 1.3                      | 0.6   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 10.7% |
| OCDF                | 0.353             | 1.412     | 1.6     | B    |                 | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.377             | 1.508     | 6.34    | B    |                 | 6.3                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.6%  |
| PCB-77              | 2.06              | 8.24      | 2.82    | B    |                 | 2.8                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 1.07              | 4.28      | 0.759   | --   |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-105             | 1.2               | 4.8       | 15.4    | B    |                 | 15.4                     | 7.7   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 1.4%  |
| PCB-114             | 1.04              | 4.16      |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 1.03              | 4.12      | 36.5    | B    |                 | 36.5                     | 18.3  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 3.3%  |
| PCB-123             | 1.05              | 4.2       |         | --   |                 | 0.5                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.973             | 3.892     |         | --   |                 | 0.5                      |       | 0.1            | 0.1                   |       | 8.3%                 |       |
| PCB-156             | 0.897             | 3.588     | 4.19    | --   |                 | 4.2                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 3.7%  |
| PCB-157             | 1.1               | 4.4       |         | E    |                 | 0.6                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-167             | 1.33              | 5.32      |         | E    |                 | 0.7                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.789             | 3.156     |         | --   |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.7%                 |       |
| PCB-189             | 0.215             | 0.86      | 0.345   | --   |                 | 0.3                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.5               | 0.0   | 0.1       | 0.0   | 0.6          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 1018              | RMA Clean | RMA-B   |      |                 |                          |       |                |                       |       |                      |       |      |       |      |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.178             | 0.712     |         | U    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 2,3,7,8-TCDD        | 0.139             | 0.556     | 0.167   | --   |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 25.4%                | 46.8% |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.245             | 0.98      |         | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.227             | 0.908     |         | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       | 6.4%                 |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.232             | 0.928     | 0.285   | --   |                 | 0.3                      | 0.1   | 1              | 0.3                   | 0.1   | 38.1%                | 46.8% |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.213             | 0.852     |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.313             | 1.252     |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.5%                 |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.207             | 0.828     |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.572             | 2.288     |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 3.8%                 |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.23              | 0.92      |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.133             | 0.532     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.131             | 0.524     |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.3%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.184             | 0.736     | 0.562   | --   |                 | 0.6                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.8%                 | 1.4%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.289             | 1.156     |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.151             | 0.604     | 1.3     | B    |                 | 1.3                      | 0.7   | 0.01           | 0.0                   | 0.0   | 1.7%                 | 3.3%  |      |       |      |
| OCDF                | 0.207             | 0.828     | 1.4     | B    |                 | 1.4                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| OCDD                | 0.122             | 0.488     | 6.43    | B    |                 | 6.4                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |
| PCB-77              | 1.31              | 5.24      | 2.57    | B    |                 | 2.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-81              | 0.769             | 3.076     |         | --   |                 | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-105             | 2.16              | 8.64      | 13.7    | B    |                 | 13.7                     | 6.9   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |
| PCB-114             | 2                 | 8         |         | --   |                 | 1                        |       | 0.0005         | 0.0                   |       | 0.1%                 |       |      |       |      |
| PCB-118             | 1.94              | 7.76      | 30.1    | B    |                 | 30.1                     | 15.1  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.7%  |      |       |      |
| PCB-123             | 1.98              | 7.92      |         | --   |                 | 1                        |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-126             | 1.88              | 7.52      |         | --   |                 | 0.9                      |       | 0.1            | 0.1                   |       | 11.4%                |       |      |       |      |
| PCB-156             | 0.869             | 3.476     | 3.35    | --   |                 | 3.4                      | 1.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |      |       |      |
| PCB-157             | 0.909             | 3.636     |         | --   |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |
| PCB-167             | 0.654             | 2.616     | 1.12    | B    |                 | 1.1                      | 0.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |
| PCB-169             | 0.754             | 3.016     |         | --   |                 | 0.4                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |      |       |      |
| PCB-189             | 0.531             | 2.124     |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.6               | 0.2   | 0.1       | 0.0   | 0.7          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 421 | RMA Clean | RMA-F-2 |
|-----------|-----|-----------|---------|
|-----------|-----|-----------|---------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0236            | 0.0944 | 0.052   | NJ   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.116             | 0.464  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 31.8%                |       |
| 1,2,3,7,8-PeCDF     | 0.136             | 0.544  |         | E    | <5x*B           | 0.1                      |       | 0.05           | 0.0                   |       | 1.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0224            | 0.0896 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.174             | 0.696  |         | E    | <5x*B           | 0.1                      |       | 1              | 0.1                   |       | 31.8%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0349            | 0.1396 | 0.153   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 6.4%                 | 17.3% |
| 1,2,3,6,7,8-HxCDF   | 0.169             | 0.676  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.114             | 0.456  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 3.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0441            | 0.1764 | 0.29    | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 9.6%                 | 51.9% |
| 1,2,3,4,7,8-HxCDD   | 0.0263            | 0.1052 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0985            | 0.394  |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0841            | 0.3364 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.463             | 1.852  |         | E    | <5x*B           | 0.2                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.0706            | 0.2824 | 0.206   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 1.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0316            | 0.1264 | 0.809   | B    | <5x*B           | 0.8                      | 0.4   | 0.01           | 0.0                   | 0.0   | 2.5%                 | 6.9%  |
| OCDF                | 0.0407            | 0.1628 | 1.8     | J    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0274            | 0.1096 | 4.61    | B    | <5x*B           | 4.6                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.4%  |
| PCB-77              | 0.0312            | 0.1248 | 1.98    | B    | <5x*B           | 2                        | 1     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.0364            | 0.1456 | 0.371   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.335             | 1.34   | 9.99    | B    | <5x*B           | 10                       | 5     | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.9%  |
| PCB-114             | 0.353             | 1.412  | 0.782   | B    | <5x*B           | 0.8                      | 0.2   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.386             | 1.544  | 20.5    | B    | <5x*B           | 20.5                     | 10.3  | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 1.8%  |
| PCB-123             | 0.425             | 1.7    |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.138             | 0.552  | 0.216   | --   |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 6.4%                 | 17.3% |
| PCB-156             | 0.318             | 1.272  | 2.99    | B    | <5x*B           | 3                        | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 1.3%  |
| PCB-157             | 0.332             | 1.328  |         | --   |                 | 0.2                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-167             | 0.317             | 1.268  | 1.24    | B    | <5x*B           | 1.2                      | 0.3   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.13              | 0.52   |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| PCB-189             | 0.19              | 0.76   |         | --   |                 | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.0   | 0.0       | 0.0   | 0.2          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 246               | Split | SP-8    |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 8                 | 32    | 5.56    | NJ   |                 | 2                        |       | 0.1            | 0.2                   |       | 0.7%                 |       |
| 2,3,7,8-TCDD        | 0.404             | 1.616 |         | I    |                 | 0.2                      |       | 1              | 0.2                   |       | 0.7%                 |       |
| 1,2,3,7,8-PeCDF     | 0.589             | 2.356 | 43      | --   |                 | 43                       | 43    | 0.05           | 2.2                   | 2.2   | 7.1%                 | 8.3%  |
| 2,3,4,7,8-PeCDF     | 0.501             | 2.004 | 8.29    | --   |                 | 8.3                      | 8.3   | 0.5            | 4.2                   | 4.2   | 13.7%                | 15.9% |
| 1,2,3,7,8-PeCDD     | 1.61              | 6.44  |         | EI   | <5x*B           | 0.8                      |       | 1              | 0.8                   |       | 2.6%                 |       |
| 1,2,3,4,7,8-HxCDF   | 7.8               | 31.2  | 79.4    | --   |                 | 79.4                     | 79.4  | 0.1            | 7.9                   | 7.9   | 26.3%                | 30.5% |
| 1,2,3,6,7,8-HxCDF   | 6.96              | 27.84 | 44.6    | --   |                 | 44.6                     | 44.6  | 0.1            | 4.5                   | 4.5   | 14.7%                | 17.1% |
| 2,3,4,6,7,8-HxCDF   | 9.29              | 37.16 | 20.9    | --   |                 | 20.9                     | 10.5  | 0.1            | 2.1                   | 1.1   | 6.9%                 | 4.0%  |
| 1,2,3,7,8,9-HxCDF   | 13.3              | 53.2  | 18.3    | --   |                 | 18.3                     | 9.2   | 0.1            | 1.8                   | 0.9   | 6.1%                 | 3.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.787             | 3.148 | 2.67    | --   |                 | 2.7                      | 1.3   | 0.1            | 0.3                   | 0.1   | 0.9%                 | 0.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.662             | 2.648 | 5.1     | --   |                 | 5.1                      | 5.1   | 0.1            | 0.5                   | 0.5   | 1.7%                 | 2.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.669             | 2.676 | 3.54    | J    |                 | 3.5                      | 1.8   | 0.1            | 0.4                   | 0.2   | 1.2%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDF | 199               | 796   |         | D    | <5x*B           | 49.8                     |       | 0.01           | 0.5                   |       | 1.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.421             | 1.684 | 87.3    | --   |                 | 87.3                     | 87.3  | 0.01           | 0.9                   | 0.9   | 2.9%                 | 3.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.615             | 2.46  | 94.2    | --   |                 | 94.2                     | 94.2  | 0.01           | 0.9                   | 0.9   | 3.1%                 | 3.6%  |
| OCDF                | 0.151             | 0.604 | 1310    | --   |                 | 1310                     | 1310  | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.5%  |
| OCDD                | 0.209             | 0.836 | 498     | --   |                 | 498                      | 498   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 11.8              | 47.2  | 166     | J    |                 | 166                      | 83    | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.976             | 3.904 | 6.79    | J    |                 | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 15.9              | 63.6  | 1290    | CJ   |                 | 1290                     | 645   | 0.0001         | 0.1                   | 0.1   | 0.4%                 | 0.2%  |
| PCB-114             | 15.5              | 62    | 72.4    | --   |                 | 72.4                     | 72.4  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 13.4              | 53.6  | 2800    | CJ   |                 | 2800                     | 1400  | 0.0001         | 0.3                   | 0.1   | 0.9%                 | 0.5%  |
| PCB-123             | 14.2              | 56.8  |         | --   | <5x*B           | 7.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 1.6               | 6.4   | 20.8    | --   |                 | 20.8                     | 20.8  | 0.1            | 2.1                   | 2.1   | 6.9%                 | 8.0%  |
| PCB-156             | 3.81              | 15.24 | 356     | --   |                 | 356                      | 356   | 0.0005         | 0.2                   | 0.2   | 0.6%                 | 0.7%  |
| PCB-157             | 4.05              | 16.2  | 87.1    | --   |                 | 87.1                     | 87.1  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-167             | 3.79              | 15.16 | 155     | --   |                 | 155                      | 155   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 1.01              | 4.04  | 3.18    | --   |                 | 3.2                      | 1.6   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 2.87              | 11.48 | 39.7    | --   |                 | 39.7                     | 39.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 27.5              | 23.5  | 2.7       | 2.5   | 30.2         | 26.0  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 252               | Split | C zone  |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.463             | 1.852 | 0.21    | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.123             | 0.492 |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 5.5%                 |       |
| 1,2,3,7,8-PeCDF     | 0.415             | 1.66  |         | E    |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.293             | 1.172 | 0.507   | J    |                 | 0.5                      | 0.1   | 0.5            | 0.3                   | 0.1   | 13.8%                | 4.4%  |
| 1,2,3,7,8-PeCDD     | 0.414             | 1.656 |         | EJ   |                 | 0.2                      |       | 1              | 0.2                   |       | 11.0%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.658             | 2.632 |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.683             | 2.732 |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.607             | 2.428 |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 1.7%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.235             | 0.94  | 0.417   | --   |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.2%                 | 1.8%  |
| 1,2,3,4,7,8-HxCDD   | 0.156             | 0.624 | 0.501   | --   |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 2.7%  |
| 1,2,3,6,7,8-HxCDD   | 0.132             | 0.528 | 0.856   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 5.0%                 | 8.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.133             | 0.532 | 0.807   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 4.4%                 | 7.1%  |
| 1,2,3,4,6,7,8-HpCDF | 5.64              | 22.56 |         | D    |                 | 1.4                      |       | 0.01           | 0.0                   |       | 0.8%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.246             | 0.984 | 0.656   | B    | <5x*B           | 0.7                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| 1,2,3,4,6,7,8-HpCDD | 0.179             | 0.716 | 19.9    | --   |                 | 19.9                     | 19.9  | 0.01           | 0.2                   | 0.2   | 11.0%                | 17.6% |
| OCDF                | 0.156             | 0.624 | 15.6    | B    | <5x*B           | 15.6                     | 7.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.116             | 0.464 | 161     | --   |                 | 161                      | 161   | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.4%  |
| PCB-77              | 0.703             | 2.812 | 21.3    | --   |                 | 21.3                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.757             | 3.028 | 1.16    | B    | <5x*B           | 1.2                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 3.37              | 13.48 | 57      | B    | <5x*B           | 57                       | 28.5  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-114             | 0.228             | 0.912 | 1.97    | --   |                 | 2                        | 2     | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 2.59              | 10.36 | 108     | BJ   | <5x*B           | 108                      | 54    | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.5%  |
| PCB-123             | 7.88              | 31.5  |         | --   |                 | 3.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.436             | 1.744 | 6.08    | --   |                 | 6.1                      | 6.1   | 0.1            | 0.6                   | 0.6   | 33.7%                | 54.0% |
| PCB-156             | 0.859             | 3.436 | 24.1    | --   |                 | 24.1                     | 24.1  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-157             | 0.852             | 3.408 | 6.55    | --   |                 | 6.6                      | 6.6   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.755             | 3.02  | 15.2    | --   |                 | 15.2                     | 15.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.701             | 2.804 | 0.893   | I    |                 | 0.9                      | 0.4   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-189             | 0.311             | 1.244 | 4.08    | --   |                 | 4.1                      | 4.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.1               | 0.5   | 0.6       | 0.6   | 1.7          | 1.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 333               | Split  | S1      |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0438            | 0.1752 | 1.52    | NJ   |                 | 0.8                      |       | 0.1            | 0.1                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.0336            | 0.1344 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0326            | 0.1304 | 11.3    | --   |                 | 11.3                     | 11.3  | 0.05           | 0.6                   | 0.6   | 7.4%                 | 7.6%  |
| 2,3,4,7,8-PeCDF     | 0.0252            | 0.1008 | 1.92    | --   |                 | 1.9                      | 1.9   | 0.5            | 1.0                   | 1.0   | 12.5%                | 12.9% |
| 1,2,3,7,8-PeCDD     | 0.0244            | 0.0976 | 0.497   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 6.6%                 | 6.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.024             | 0.096  | 19.1    | --   |                 | 19.1                     | 19.1  | 0.1            | 1.9                   | 1.9   | 25.2%                | 25.9% |
| 1,2,3,6,7,8-HxCDF   | 0.0207            | 0.0828 | 8.84    | --   |                 | 8.8                      | 8.8   | 0.1            | 0.9                   | 0.9   | 11.6%                | 11.9% |
| 2,3,4,6,7,8-HxCDF   | 0.0227            | 0.0908 | 4.21    | --   |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 5.5%                 | 5.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.0254            | 0.1016 | 4.77    | --   |                 | 4.8                      | 4.8   | 0.1            | 0.5                   | 0.5   | 6.3%                 | 6.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.66              | 2.64   |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0544            | 0.2176 | 1.05    | --   |                 | 1.1                      | 1.1   | 0.1            | 0.1                   | 0.1   | 1.4%                 | 1.5%  |
| 1,2,3,7,8,9-HxCDD   | 1.21              | 4.84   |         | E    |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.032             | 0.128  | 49.7    | --   |                 | 49.7                     | 49.7  | 0.01           | 0.5                   | 0.5   | 6.5%                 | 6.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0406            | 0.1624 | 21.4    | --   |                 | 21.4                     | 21.4  | 0.01           | 0.2                   | 0.2   | 2.8%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDD | 0.086             | 0.344  | 15.9    | --   |                 | 15.9                     | 15.9  | 0.01           | 0.2                   | 0.2   | 2.1%                 | 2.2%  |
| OCDF                | 0.014             | 0.056  | 333     | --   |                 | 333                      | 333   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |
| OCDD                | 0.0341            | 0.1364 | 127     | --   |                 | 127                      | 127   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-77              | 0.133             | 0.532  | 23.8    | --   |                 | 23.8                     | 23.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.13              | 0.52   | 1.41    | B    | <5x*B           | 1.4                      | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.569             | 2.276  | 290     | --   |                 | 290                      | 290   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-114             | 0.565             | 2.26   | 18.3    | --   |                 | 18.3                     | 18.3  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.417             | 1.668  | 629     | CJ   |                 | 629                      | 314.5 | 0.0001         | 0.1                   | 0.0   | 0.8%                 | 0.4%  |
| PCB-123             | 0.469             | 1.876  |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.393             | 1.572  | 5.09    | --   |                 | 5.1                      | 5.1   | 0.1            | 0.5                   | 0.5   | 6.7%                 | 6.9%  |
| PCB-156             | 0.54              | 2.16   | 104     | --   |                 | 104                      | 104   | 0.0005         | 0.1                   | 0.1   | 0.7%                 | 0.7%  |
| PCB-157             | 0.569             | 2.276  | 26.3    | --   |                 | 26.3                     | 26.3  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-167             | 0.524             | 2.096  | 46.2    | --   |                 | 46.2                     | 46.2  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0474            | 0.1896 | 1.03    | --   |                 | 1                        | 1     | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 12.8              | 51.2   |         | E    |                 | 6.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.0               | 6.8   | 0.7       | 0.6   | 7.7          | 7.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 407               | Split | P-5     |      |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.379             | 1.516 | 8.33    | NJ   |                 | 4.2                      |       | 0.1            | 0.4                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.374             | 1.496 |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 0.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.16              | 0.64  | 6.66    | --   |                 | 6.7                      | 6.7   | 0.05           | 0.3                   | 0.3   | 0.7%                 | 1.1%  |
| 2,3,4,7,8-PeCDF     | 0.157             | 0.628 | 5.6     | --   |                 | 5.6                      | 5.6   | 0.5            | 2.8                   | 2.8   | 5.8%                 | 9.5%  |
| 1,2,3,7,8-PeCDD     | 0.114             | 0.456 | 2.06    | --   |                 | 2.1                      | 2.1   | 1              | 2.1                   | 2.1   | 4.3%                 | 7.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.536             | 2.144 | 13.8    | --   |                 | 13.8                     | 13.8  | 0.1            | 1.4                   | 1.4   | 2.8%                 | 4.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.552             | 2.208 | 7.96    | --   |                 | 8                        | 8     | 0.1            | 0.8                   | 0.8   | 1.6%                 | 2.7%  |
| 2,3,4,6,7,8-HxCDF   | 1.15              | 4.6   | 5.63    | --   |                 | 5.6                      | 5.6   | 0.1            | 0.6                   | 0.6   | 1.2%                 | 1.9%  |
| 1,2,3,7,8,9-HxCDF   | 2.96              | 11.84 |         | E    | <5x*B           | 1.5                      |       | 0.1            | 0.2                   |       | 0.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.797             | 3.188 | 3.29    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 0.7%                 | 1.1%  |
| 1,2,3,6,7,8-HxCDD   | 0.657             | 2.628 | 5.33    | --   |                 | 5.3                      | 5.3   | 0.1            | 0.5                   | 0.5   | 1.1%                 | 1.8%  |
| 1,2,3,7,8,9-HxCDD   | 0.678             | 2.712 | 3.75    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 0.8%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.511             | 2.044 | 52.6    | --   |                 | 52.6                     | 52.6  | 0.01           | 0.5                   | 0.5   | 1.1%                 | 1.8%  |
| 1,2,3,4,7,8,9-HpCDF | 1.11              | 4.44  | 12.1    | --   |                 | 12.1                     | 12.1  | 0.01           | 0.1                   | 0.1   | 0.2%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 1.29              | 5.16  | 128     | --   |                 | 128                      | 128   | 0.01           | 1.3                   | 1.3   | 2.6%                 | 4.3%  |
| OCDF                | 0.114             | 0.456 | 175     | --   |                 | 175                      | 175   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.167             | 0.668 | 720     | --   |                 | 720                      | 720   | 0.0001         | 0.1                   | 0.1   | 0.1%                 | 0.2%  |
| PCB-77              | 5.37              | 21.48 | 1600    | CJ   |                 | 1600                     | 800   | 0.0001         | 0.2                   | 0.1   | 0.3%                 | 0.3%  |
| PCB-81              | 4.93              | 19.72 | 32.8    | J    |                 | 32.8                     | 16.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 201               | 804   | 13800   | CJ   |                 | 13800                    | 6900  | 0.0001         | 1.4                   | 0.7   | 2.8%                 | 2.3%  |
| PCB-114             | 197               | 788   | 634     | CJ   |                 | 634                      | 158.5 | 0.0005         | 0.3                   | 0.1   | 0.7%                 | 0.3%  |
| PCB-118             | 163               | 652   | 17700   | SJ   |                 | 17700                    | 8850  | 0.0001         | 1.8                   | 0.9   | 3.6%                 | 3.0%  |
| PCB-123             | 178               | 712   | 578     | CJ   |                 | 578                      | 144.5 | 0.0001         | 0.1                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-126             | 57.4              | 229.6 | 293     | CJ   |                 | 293                      | 146.5 | 0.1            | 29.3                  | 14.7  | 60.2%                | 49.6% |
| PCB-156             | 9.38              | 37.52 | 5340    | CJ   |                 | 5340                     | 2670  | 0.0005         | 2.7                   | 1.3   | 5.5%                 | 4.5%  |
| PCB-157             | 9.76              | 39.04 | 1330    | CJ   |                 | 1330                     | 665   | 0.0005         | 0.7                   | 0.3   | 1.4%                 | 1.1%  |
| PCB-167             | 8.62              | 34.48 | 2760    | CJ   |                 | 2760                     | 1380  | 0.00001        | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-169             | 2.99              | 11.96 | 20.8    | --   |                 | 20.8                     | 20.8  | 0.01           | 0.2                   | 0.2   | 0.4%                 | 0.7%  |
| PCB-189             | 6.34              | 25.36 | 756     | CJ   |                 | 756                      | 378   | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 12.0              | 11.2  | 36.8      | 18.3  | 48.8         | 29.5  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 743               | Split  | S5    | Several analytes not reported |       |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|-------|-------------------------------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        |       | Results                       |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc  | Flag                          | Full  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0624            | 0.2496 | 0.337 | NJ                            |       | 0.2             |                          |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,7,8-TCDD        | 1.15              | 4.6    |       | E                             |       | 0.6             |                          |       | 1              | 0.6                   |       | 44.3%                |       |
| 1,2,3,7,8-PeCDF     | 0.644             | 2.576  |       | E                             |       | 0.3             |                          |       | 0.05           | 0.0                   |       | 1.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.36              | 1.44   |       | E                             |       | 0.2             |                          |       | 0.5            | 0.1                   |       | 7.4%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0527            | 0.2108 |       | --                            |       | 0               |                          |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 1.07              | 4.28   |       | E                             |       | 0.5             |                          |       | 0.1            | 0.1                   |       | 3.7%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0337            | 0.1348 | 0.566 | B                             | <5x*B | 0.6             |                          | 0.3   | 0.1            | 0.1                   | 0.0   | 4.4%                 | 6.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.528             | 2.112  |       | E                             |       | 0.3             |                          |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0562            | 0.2248 | 0.472 | --                            |       | 0.5             |                          | 0.5   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 11.3% |
| 1,2,3,4,7,8-HxCDD   | 0.309             | 1.236  |       | E                             |       | 0.2             |                          |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0142            | 0.0568 | 0.424 | --                            |       | 0.4             |                          | 0.4   | 0.1            | 0.0                   | 0.0   | 3.0%                 | 9.1%  |
| 1,2,3,7,8,9-HxCDD   | 0.24              | 0.96   |       | EJ                            |       | 0.1             |                          |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.031             | 0.124  | 3.99  | --                            |       | 4               |                          | 4     | 0.01           | 0.0                   | 0.0   | 3.0%                 | 9.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0533            | 0.2132 | 1.28  | --                            |       | 1.3             |                          | 1.3   | 0.01           | 0.0                   | 0.0   | 1.0%                 | 2.9%  |
| 1,2,3,4,6,7,8-HpCDD | 7.71              | 30.84  |       | E                             |       | 3.9             |                          |       | 0.01           | 0.0                   |       | 2.9%                 |       |
| OCDF                | 0.0478            | 0.1912 | 21.6  | --                            |       | 21.6            |                          | 21.6  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| OCDD                | 0.055             | 0.22   | 63.8  | --                            |       | 63.8            |                          | 63.8  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 1.4%  |
| PCB-77              | 0.0613            | 0.2452 | 7.62  | B                             | <5x*B | 7.6             |                          | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0796            | 0.3184 | 1.2   | B                             | <5x*B | 1.2             |                          | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-114             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-118             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-123             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0001         |                       |       |                      |       |
| PCB-126             | 0.252             | 1.008  | 2.51  | --                            |       | 2.5             |                          | 2.5   | 0.1            | 0.3                   | 0.3   | 18.4%                | 56.7% |
| PCB-156             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-157             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.0005         |                       |       |                      |       |
| PCB-167             |                   |        |       | --                            | <5x*B |                 |                          |       | 0.00001        |                       |       |                      |       |
| PCB-169             | 0.0865            | 0.346  | 0.867 | --                            |       | 0.9             |                          | 0.9   | 0.01           | 0.0                   | 0.0   | 0.7%                 | 2.0%  |
| PCB-189             |                   |        |       | --                            |       |                 |                          |       | 0.0001         |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.0               | 0.1   | 0.3       | 0.3   | 1.3          | 0.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 874               | Split  |         | S35  |                 |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.904             | 3.616  |         | E    |                 | 0.5                      |       | 0.1            | 0.1                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.029             | 0.116  | 0.117   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 2.3%                 | 2.5%  |
| 1,2,3,7,8-PeCDF     | 0.0132            | 0.0528 | 4.37    | --   |                 | 4.4                      | 4.4   | 0.05           | 0.2                   | 0.2   | 5.0%                 | 5.5%  |
| 2,3,4,7,8-PeCDF     | 0.00997           | 0.0399 | 0.986   | --   |                 | 1                        | 1     | 0.5            | 0.5                   | 0.5   | 11.3%                | 12.5% |
| 1,2,3,7,8-PeCDD     | 0.431             | 1.724  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 4.5%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0195            | 0.078  | 7.28    | --   |                 | 7.3                      | 7.3   | 0.1            | 0.7                   | 0.7   | 16.5%                | 18.3% |
| 1,2,3,6,7,8-HxCDF   | 0.0171            | 0.0684 | 3.77    | --   |                 | 3.8                      | 3.8   | 0.1            | 0.4                   | 0.4   | 8.6%                 | 9.5%  |
| 2,3,4,6,7,8-HxCDF   | 0.0198            | 0.0792 | 1.92    | --   |                 | 1.9                      | 1.9   | 0.1            | 0.2                   | 0.2   | 4.3%                 | 4.8%  |
| 1,2,3,7,8,9-HxCDF   | 0.023             | 0.092  | 1.7     | B    | <5x*B           | 1.7                      | 0.9   | 0.1            | 0.2                   | 0.1   | 3.8%                 | 2.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0397            | 0.1588 | 0.437   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 0.9%                 | 0.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.681             | 2.724  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.694             | 2.776  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.7%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0207            | 0.0828 | 19.8    | --   |                 | 19.8                     | 19.8  | 0.01           | 0.2                   | 0.2   | 4.5%                 | 5.0%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0293            | 0.1172 | 7.91    | --   |                 | 7.9                      | 7.9   | 0.01           | 0.1                   | 0.1   | 1.8%                 | 2.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0531            | 0.2124 | 15.2    | --   |                 | 15.2                     | 15.2  | 0.01           | 0.2                   | 0.2   | 3.4%                 | 3.8%  |
| OCDF                | 0.0128            | 0.0512 | 104     | --   |                 | 104                      | 104   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| OCDD                | 0.028             | 0.112  | 119     | --   |                 | 119                      | 119   | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-77              | 0.0571            | 0.2284 | 66.4    | --   |                 | 66.4                     | 66.4  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.0558            | 0.2232 | 2.48    | B    | <5x*B           | 2.5                      | 1.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.97              | 7.88   | 338     | --   |                 | 338                      | 338   | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.8%  |
| PCB-114             | 1.96              | 7.84   | 15.5    | --   |                 | 15.5                     | 15.5  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 1.65              | 6.6    | 623     | CJ   |                 | 623                      | 311.5 | 0.0001         | 0.1                   | 0.0   | 1.4%                 | 0.8%  |
| PCB-123             | 1.86              | 7.44   |         | --   |                 | 0.9                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.573             | 2.292  | 11.5    | --   |                 | 11.5                     | 11.5  | 0.1            | 1.2                   | 1.2   | 25.9%                | 28.8% |
| PCB-156             | 0.496             | 1.984  | 108     | --   |                 | 108                      | 108   | 0.0005         | 0.1                   | 0.1   | 1.2%                 | 1.4%  |
| PCB-157             | 0.522             | 2.088  | 27.3    | --   |                 | 27.3                     | 27.3  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.481             | 1.924  | 48.3    | --   |                 | 48.3                     | 48.3  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0853            | 0.3412 | 1.18    | --   |                 | 1.2                      | 1.2   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.526             | 2.104  | 12.2    | --   |                 | 12.2                     | 12.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 3.1               | 2.7   | 1.4       | 1.3   | 4.5          | 4.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 175-B             | Bulk   | NW A-5  | NW   | Agricultural    | Fines sampled broke and was replaced by April sample 129. |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|---|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*                                  |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full  | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 1.35              | 5.4    |         | E    |                 | 0.7   |       | 0.1            | 0.1                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.0196            | 0.0784 | 0.367   | --   |                 | 0.4   | 0.4   | 1              | 0.4                   | 0.4   | 3.6%                 | 3.9%  |
| 1,2,3,7,8-PeCDF     | 0.0328            | 0.1312 | 0.767   | B    | <5x*B           | 0.8   | 0.4   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.2%  |
| 2,3,4,7,8-PeCDF     | 0.0255            | 0.102  | 0.979   | --   |                 | 1   | 1     | 0.5            | 0.5                   | 0.5   | 4.5%                 | 4.9%  |
| 1,2,3,7,8-PeCDD     | 0.0194            | 0.0776 | 1.52    | B    | <5x*B           | 1.5   | 0.8   | 1              | 1.5                   | 0.8   | 13.4%                | 7.8%  |
| 1,2,3,4,7,8-HxCDF   | 0.114             | 0.456  | 1.27    | --   |                 | 1.3   | 1.3   | 0.1            | 0.1                   | 0.1   | 1.2%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.1               | 0.4    | 1.47    | D    |                 | 0.7   |       | 0.1            | 0.1                   |       | 0.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.123             | 0.492  | 0.923   | --   |                 | 0.9   | 0.9   | 0.1            | 0.1                   | 0.1   | 0.8%                 | 0.9%  |
| 1,2,3,7,8,9-HxCDF   | 0.138             | 0.552  | 0.653   | --   |                 | 0.7   | 0.7   | 0.1            | 0.1                   | 0.1   | 0.6%                 | 0.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.124             | 0.496  | 1.96    | --   |                 | 2   | 2     | 0.1            | 0.2                   | 0.2   | 1.8%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.105             | 0.42   | 12.3    | --   |                 | 12.3  | 12.3  | 0.1            | 1.2                   | 1.2   | 11.0%                | 12.0% |
| 1,2,3,7,8,9-HxCDD   | 0.107             | 0.428  | 6.57    | --   |                 | 6.6   | 6.6   | 0.1            | 0.7                   | 0.7   | 5.9%                 | 6.5%  |
| 1,2,3,4,6,7,8-HpCDF | 16.3              | 65.2   |         | D    | <5x*B           | 4.1   |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.105             | 0.42   | 1.25    | --   |                 | 1.3   | 1.3   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0583            | 0.2332 | 393     | --   |                 | 393   | 393   | 0.01           | 3.9                   | 3.9   | 35.1%                | 38.4% |
| OCDF                | 0.0913            | 0.3652 | 50.7    | --   |                 | 50.7  | 50.7  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0977            | 0.3908 | 1570    | --   |                 | 1570  | 1570  | 0.0001         | 0.2                   | 0.2   | 1.4%                 | 1.5%  |
| PCB-77              | 0.106             | 0.424  | 142     | --   |                 | 142   | 142   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.106             | 0.424  | 4.85    | --   |                 | 4.9   | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 10.7              | 42.8   | 934     | --   |                 | 934   | 934   | 0.0001         | 0.1                   | 0.1   | 0.8%                 | 0.9%  |
| PCB-114             | 11.3              | 45.2   |         | --   | <5x*B           | 5.7   |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 12.5              | 50     | 1580    | CJ   |                 | 1580  | 790   | 0.0001         | 0.2                   | 0.1   | 1.4%                 | 0.8%  |
| PCB-123             | 13.8              | 55.2   | 58      | --   |                 | 58  | 58    | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 1.08              | 4.32   | 14.3    | --   |                 | 14.3  | 14.3  | 0.1            | 1.4                   | 1.4   | 12.8%                | 14.0% |
| PCB-156             | 1.41              | 5.64   | 509     | --   |                 | 509   | 509   | 0.0005         | 0.3                   | 0.3   | 2.3%                 | 2.5%  |
| PCB-157             | 1.47              | 5.88   | 239     | --   |                 | 239   | 239   | 0.0005         | 0.1                   | 0.1   | 1.1%                 | 1.2%  |
| PCB-167             | 1.41              | 5.64   | 310     | --   |                 | 310   | 310   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0982            | 0.3928 | 1.02    | --   |                 | 1   | 1     | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-189             | 0.436             | 1.744  | 64.1    | --   |                 | 64.1  | 64.1  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.1               | 8.2   | 2.1       | 2.0   | 11.2         | 10.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID | 417 | Duplicate | NW A-3 | NW | Agricultural |
|-----------|-----|-----------|--------|----|--------------|
|-----------|-----|-----------|--------|----|--------------|

| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.125             | 0.5    |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.191             | 0.764  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       | 6.4%                 |       |
| 1,2,3,7,8-PeCDF     | 0.348             | 1.392  |         | --   |                 | 0.2                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.278             | 1.112  | 0.466   | --   |                 | 0.5                      | 0.2   | 0.5            | 0.3                   | 0.1   | 16.0%                | 13.0% |
| 1,2,3,7,8-PeCDD     | 0.354             | 1.416  | 0.458   | --   |                 | 0.5                      | 0.2   | 1              | 0.5                   | 0.2   | 31.9%                | 26.0% |
| 1,2,3,4,7,8-HxCDF   | 0.26              | 1.04   |         | I    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.231             | 0.924  |         | I    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.495             | 1.98   | 1.65    | D    |                 | 0.8                      |       | 0.1            | 0.1                   |       | 5.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.418             | 1.672  | 0.454   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 2.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.352             | 1.408  | 0.525   | --   |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.2%                 | 3.9%  |
| 1,2,3,6,7,8-HxCDD   | 0.285             | 1.14   | 0.616   | I    |                 | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 3.8%                 | 3.9%  |
| 1,2,3,7,8,9-HxCDD   | 0.275             | 1.1    | 0.385   | IJE  |                 | 0.4                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.6%                 | 1.3%  |
| 1,2,3,4,6,7,8-HpCDF | 0.492             | 1.968  | 3.32    | I    |                 | 3.3                      | 3.3   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 4.3%  |
| 1,2,3,4,7,8,9-HpCDF | 1.6               | 6.4    |         | --   |                 | 0.8                      |       | 0.01           | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 1.36              | 5.44   | 17.2    | --   |                 | 17.2                     | 17.2  | 0.01           | 0.2                   | 0.2   | 11.0%                | 22.4% |
| OCDF                | 1.79              | 7.16   | 14.3    | J    |                 | 14.3                     | 7.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 6.27              | 25.08  | 150     | --   |                 | 150                      | 150   | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.9%  |
| PCB-77              | 0.0622            | 0.2488 | 5.02    | B    | <5x*B           | 5                        | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0705            | 0.282  | 0.646   | --   |                 | 0.6                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.296             | 1.184  | 23      | B    | <5x*B           | 23                       | 11.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 0.309             | 1.236  | 1.28    | --   |                 | 1.3                      | 1.3   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-118             | 0.34              | 1.36   | 50.3    | B    | <5x*B           | 50.3                     | 25.2  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-123             | 0.387             | 1.548  | 1.15    | --   |                 | 1.2                      | 0.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.101             | 0.404  | 1.46    | --   |                 | 1.5                      | 1.5   | 0.1            | 0.2                   | 0.2   | 9.6%                 | 19.5% |
| PCB-156             | 0.291             | 1.164  | 11.7    | B    | <5x*B           | 11.7                     | 5.9   | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-157             | 0.3               | 1.2    | 3.11    | B    | <5x*B           | 3.1                      | 1.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.295             | 1.18   | 7.76    | JB   | <5x*B           | 7.8                      | 3.9   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.282             | 1.128  |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.287             | 1.148  | 2.4     | --   |                 | 2.4                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.5               | 0.5   | 0.2       | 0.2   | 1.7          | 0.7   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 165               | Split  | SE A-8  | SE   | Agricultural    |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.109             | 0.436  |         | --   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.6%  |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.138             | 0.552  |         | --   |                 | 0.1                      |       | 1              | 0.1                   |       |                      | 15.7% |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.263             | 1.052  | 0.151   | --   |                 | 0.1                      |       | 0.05           | 0.0                   |       |                      | 0.8%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.226             | 0.904  | 0.137   | --   |                 | 0.1                      |       | 0.5            | 0.1                   |       |                      | 7.9%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.229             | 0.916  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       |                      | 15.7% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.186             | 0.744  | 0.176   | I    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.6%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.176             | 0.704  | 0.45    | BI   | <5x*B           | 0.5                      | 0.1   | 0.1            | 0.1                   | 0.0   |                      | 7.9%  |      | 4.5%  |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.364             | 1.456  | 0.193   | B    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       |                      | 3.1%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.664             | 2.656  | 0.413   | B    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       |                      | 4.7%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.177             | 0.708  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.6%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.142             | 0.568  | 0.237   | I    |                 | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   |                      | 3.1%  |      | 4.5%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.115             | 0.46   |         | IE   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.6%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 2.1               | 8.4    |         | DI   | <5x*B           | 0.5                      |       | 0.01           | 0.0                   |       |                      | 0.8%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.52              | 2.08   |         | --   |                 | 0.3                      |       | 0.01           | 0.0                   |       |                      | 0.5%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.348             | 1.392  | 4.68    | --   |                 | 4.7                      | 4.7   | 0.01           | 0.0                   | 0.0   |                      | 7.4%  |      | 21.1% |      |       |      |
| OCDF                | 0.557             | 2.228  | 4.31    | --   |                 | 4.3                      | 4.3   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.2%  |      |       |      |
| OCDD                | 0.544             | 2.176  | 36.3    | --   |                 | 36.3                     | 36.3  | 0.0001         | 0.0                   | 0.0   |                      | 0.6%  |      | 1.6%  |      |       |      |
| PCB-77              | 0.0699            | 0.2796 | 8.21    | B    | <5x*B           | 8.2                      | 4.1   | 0.0001         | 0.0                   | 0.0   |                      | 0.1%  |      | 0.2%  |      |       |      |
| PCB-81              | 0.0707            | 0.2828 | 0.676   | B    | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |       |      |
| PCB-105             | 0.684             | 2.736  | 31.3    | B    | <5x*B           | 31.3                     | 15.7  | 0.0001         | 0.0                   | 0.0   |                      | 0.5%  |      | 0.7%  |      |       |      |
| PCB-114             | 2.06              | 8.24   |         | E    |                 | 1                        |       | 0.0005         | 0.0                   |       |                      | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.556             | 2.224  | 67.6    | B    | <5x*B           | 67.6                     | 33.8  | 0.0001         | 0.0                   | 0.0   |                      | 1.1%  |      | 1.5%  |      |       |      |
| PCB-123             | 0.625             | 2.5    |         | --   |                 | 0.3                      |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.139             | 0.556  | 1.37    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   |                      | 22.0% |      | 62.9% |      |       |      |
| PCB-156             | 0.18              | 0.72   | 12.5    | B    | <5x*B           | 12.5                     | 6.3   | 0.0005         | 0.0                   | 0.0   |                      | 1.0%  |      | 1.4%  |      |       |      |
| PCB-157             | 0.19              | 0.76   | 3.95    | --   |                 | 4                        | 4     | 0.0005         | 0.0                   | 0.0   |                      | 0.3%  |      | 0.9%  |      |       |      |
| PCB-167             | 0.175             | 0.7    | 7.03    | B    | <5x*B           | 7                        | 3.5   | 0.00001        | 0.0                   | 0.0   |                      | 0.0%  |      | 0.0%  |      |       |      |
| PCB-169             | 0.0704            | 0.2816 | 0.219   | --   |                 | 0.2                      | 0.1   | 0.01           | 0.0                   | 0.0   |                      | 0.3%  |      | 0.4%  |      |       |      |
| PCB-189             | 1.99              | 7.96   |         | E    |                 | 1                        |       | 0.0001         | 0.0                   |       |                      | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.0   | 0.1       | 0.1   | 0.5          | 0.1   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 217               | Split  | SW A-1  | SW   | Agricultural    |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0239            | 0.0956 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0674            | 0.2696 |         | E    |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.16              | 0.64   |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.16              | 0.64   |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 10.9%                |       |
| 1,2,3,7,8-PeCDD     | 0.218             | 0.872  |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 21.7%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0373            | 0.1492 | 0.187   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.3%                 | 8.5%  |
| 1,2,3,6,7,8-HxCDF   | 0.0342            | 0.1368 | 0.206   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.3%                 | 4.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.0422            | 0.1688 | 0.256   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.5%                 | 12.7% |
| 1,2,3,7,8,9-HxCDF   | 0.362             | 1.448  |         | E    | <5x*B           | 0.2                      |       | 0.1            | 0.0                   |       | 4.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.263             | 1.052  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.286             | 1.144  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.259             | 1.036  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.2%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0303            | 0.1212 | 1.39    | --   |                 | 1.4                      | 1.4   | 0.01           | 0.0                   | 0.0   | 3.0%                 | 5.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0491            | 0.1964 | 0.0933  | --   |                 | 0.1                      | 0     | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.045             | 0.18   | 7.07    | --   |                 | 7.1                      | 7.1   | 0.01           | 0.1                   | 0.1   | 15.4%                | 30.0% |
| OCDF                | 0.0369            | 0.1476 | 4.44    | --   |                 | 4.4                      | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| OCDD                | 0.0377            | 0.1508 | 49.1    | --   |                 | 49.1                     | 49.1  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 2.1%  |
| PCB-77              | 0.0272            | 0.1088 | 2.98    | B    | <5x*B           | 3                        | 1.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0368            | 0.1472 | 0.418   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.159             | 0.636  | 24.6    | B    | <5x*B           | 24.6                     | 12.3  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-114             | 0.158             | 0.632  | 0.898   | B    | <5x*B           | 0.9                      | 0.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.157             | 0.628  | 52.8    | B    | <5x*B           | 52.8                     | 26.4  | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 1.1%  |
| PCB-123             | 0.177             | 0.708  |         | --   | <5x*B           | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.0742            | 0.2968 | 0.758   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 17.4%                | 33.8% |
| PCB-156             | 0.149             | 0.596  | 7.91    | B    | <5x*B           | 7.9                      | 4     | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 0.8%  |
| PCB-157             | 4.51              | 18.04  |         | E    | <5x*B           | 2.3                      |       | 0.0005         | 0.0                   |       | 0.2%                 |       |
| PCB-167             | 0.144             | 0.576  | 3.61    | B    | <5x*B           | 3.6                      | 1.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0554            | 0.2216 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.41              | 5.64   |         | E    |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.1   | 0.1       | 0.1   | 0.4          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 854               | Split  | NE A-4  | NE    | Agricultural    | 1,2,3,7,8,9-HxCDF results not reported |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|-------|-----------------|--|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations*               |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                                   | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0338            | 0.1352 |         | J     |                 | 0                                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0208            | 0.0832 |         | J     |                 | 0                                      |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     |                   | 0.0901 | J       |       |                 | 0.1                                    | 0     | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.0%  |
| 2,3,4,7,8-PeCDF     |                   | 0.116  | J       |       |                 | 0.1                                    | 0     | 0.5            | 0.1                   | 0.0   | 4.4%                 | 0.0%  |
| 1,2,3,7,8-PeCDD     |                   | 0.105  | J       |       |                 | 0.1                                    | 0     | 1              | 0.1                   | 0.0   | 8.8%                 | 0.0%  |
| 1,2,3,4,7,8-HxCDF   |                   | 0.128  | BJ      | <5x*B |                 | 0.1                                    | 0     | 0.1            | 0.0                   | 0.0   | 0.9%                 | 0.0%  |
| 1,2,3,6,7,8-HxCDF   |                   | 0.101  | J       |       |                 | 0.1                                    | 0     | 0.1            | 0.0                   | 0.0   | 0.9%                 | 0.0%  |
| 2,3,4,6,7,8-HxCDF   | 0.117             | 0.468  | EJ      | <5x*B |                 | 0.1                                    |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 1,2,3,7,8,9-HxCDF   |                   |        | J       | <5x*B |                 |  |       | 0.1            |                       |       |                      |       |
| 1,2,3,4,7,8-HxCDD   | 0.108             | 0.432  |         | EJ    |                 | 0.1                                    |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 1,2,3,6,7,8-HxCDD   |                   |        | 0.107   | J     |                 | 0.1                                    | 0     | 0.1            | 0.0                   | 0.0   | 0.9%                 | 0.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.081             | 0.324  |         | EJ    |                 | 0                                      |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF |                   | 0.255  | J       |       |                 | 0.3                                    | 0.1   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 14.7% |
| 1,2,3,4,7,8,9-HpCDF |                   | 0.21   | J       |       |                 | 0.2                                    | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 14.7% |
| 1,2,3,4,6,7,8-HpCDD | 0.333             | 1.332  | EJ      | <5x*B |                 | 0.2                                    |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| OCDF                | 0.333             | 1.332  | EJ      | <5x*B |                 | 0.2                                    |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| OCDD                |                   | 0.757  | BJ      | <5x*B |                 | 0.8                                    | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.3%  |
| PCB-77              | 1.91              | 7.64   | 21.2    | R     | <5x*B           | 1                                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-81              | 17.1              | 68.4   |         | R     | <5x*B           | 8.6                                    |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-105             | 0.178             | 0.712  | 16.1    | B     | <5x*B           | 16.1                                   | 8.1   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 11.9% |
| PCB-114             | 0.186             | 0.744  | 0.991   | B     | <5x*B           | 1                                      | 0.5   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 3.7%  |
| PCB-118             | 0.194             | 0.776  | 32.5    | B     | <5x*B           | 32.5                                   | 16.3  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 24.0% |
| PCB-123             | 0.22              | 0.88   | 0.925   | --    |                 | 0.9                                    | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 1.3%  |
| PCB-126             | 16.2              | 64.8   |         | R     |                 | 8.1                                    |       | 0.1            | 0.8                   |       | 70.9%                |       |
| PCB-156             | 0.212             | 0.848  | 6.08    | B     | <5x*B           | 6.1                                    | 3     | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 22.1% |
| PCB-157             | 0.219             | 0.876  | 1.64    | B     | <5x*B           | 1.6                                    | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 5.9%  |
| PCB-167             | 0.216             | 0.864  | 3.62    | BJ    | <5x*B           | 3.6                                    | 1.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.3%  |
| PCB-169             | 22                | 88     |         | R     | <5x*B           | 11                                     |       | 0.01           | 0.1                   |       | 9.6%                 |       |
| PCB-189             | 0.149             | 0.596  | 1.45    | B     | <5x*B           | 1.5                                    | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 1.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.2               | 0.0   | 0.9       | 0.0   | 1.1          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 967               | Split  | NW A-5  | NW   | Agricultural    |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.736             | 2.944  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 2,3,7,8-TCDD        | 0.031             | 0.124  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0318            | 0.1272 | 0.433   | B    | <5x*B           | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| 2,3,4,7,8-PeCDF     | 0.0241            | 0.0964 | 0.639   | --   |                 | 0.6                      | 0.6   | 0.5            | 0.3                   | 0.3   | 4.9%                 | 5.5%  |
| 1,2,3,7,8-PeCDD     | 0.0177            | 0.0708 | 0.921   | B    | <5x*B           | 0.9                      | 0.5   | 1              | 0.9                   | 0.5   | 14.6%                | 9.2%  |
| 1,2,3,4,7,8-HxCDF   | 0.0793            | 0.3172 | 0.937   | B    | <5x*B           | 0.9                      | 0.5   | 0.1            | 0.1                   | 0.1   | 1.5%                 | 0.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.07              | 0.28   | 1.62    | --   |                 | 1.6                      | 1.6   | 0.1            | 0.2                   | 0.2   | 2.6%                 | 2.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.0817            | 0.3268 | 0.623   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 1.0%                 | 1.1%  |
| 1,2,3,7,8,9-HxCDF   | 0.501             | 2.004  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0859            | 0.3436 | 1.18    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 1.9%                 | 2.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.074             | 0.296  | 6.93    | --   |                 | 6.9                      | 6.9   | 0.1            | 0.7                   | 0.7   | 11.2%                | 12.7% |
| 1,2,3,7,8,9-HxCDD   | 3.49              | 13.96  |         | E    |                 | 1.7                      |       | 0.1            | 0.2                   |       | 2.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 14.3              | 57.2   |         | D    | <5x*B           | 3.6                      |       | 0.01           | 0.0                   |       | 0.6%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.961             | 3.844  |         | E    |                 | 0.5                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.162             | 0.648  | 226     | --   |                 | 226                      | 226   | 0.01           | 2.3                   | 2.3   | 36.7%                | 41.6% |
| OCDF                | 0.168             | 0.672  | 43.8    | --   |                 | 43.8                     | 43.8  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.142             | 0.568  | 980     | --   |                 | 980                      | 980   | 0.0001         | 0.1                   | 0.1   | 1.6%                 | 1.8%  |
| PCB-77              | 0.0807            | 0.3228 | 69.2    | --   |                 | 69.2                     | 69.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0787            | 0.3148 | 2.13    | B    | <5x*B           | 2.1                      | 1.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 5.99              | 23.96  | 456     | --   |                 | 456                      | 456   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.8%  |
| PCB-114             | 6.31              | 25.24  | 11.4    | --   |                 | 11.4                     | 5.7   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 7.13              | 28.52  | 870     | --   |                 | 870                      | 870   | 0.0001         | 0.1                   | 0.1   | 1.4%                 | 1.6%  |
| PCB-123             | 7.84              | 31.36  | 26.2    | --   |                 | 26.2                     | 13.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 1.19              | 4.76   | 8.17    | --   |                 | 8.2                      | 8.2   | 0.1            | 0.8                   | 0.8   | 13.3%                | 15.1% |
| PCB-156             | 0.975             | 3.9    | 298     | --   |                 | 298                      | 298   | 0.0005         | 0.1                   | 0.1   | 2.4%                 | 2.7%  |
| PCB-157             | 1.02              | 4.08   | 112     | --   |                 | 112                      | 112   | 0.0005         | 0.1                   | 0.1   | 0.9%                 | 1.0%  |
| PCB-167             | 0.973             | 3.892  | 163     | --   |                 | 163                      | 163   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.554             | 2.216  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 1.01              | 4.04   | 40.5    | --   |                 | 40.5                     | 40.5  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.0               | 4.4   | 1.1       | 1.1   | 6.1          | 5.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 620-B             | Bulk   | SW C-11 | SW   | Commercial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.033             | 0.132  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0465            | 0.186  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0877            | 0.3508 | 0.168   | B    | <5x*B           | 0.2                      | 0     | 0.05           | 0.0                   | 0.0   | 0.9%                 | 0.0%  |
| 2,3,4,7,8-PeCDF     | 0.0724            | 0.2896 | 0.219   | B    | <5x*B           | 0.2                      | 0.1   | 0.5            | 0.1                   | 0.1   | 8.7%                 | 6.3%  |
| 1,2,3,7,8-PeCDD     | 0.0571            | 0.2284 | 0.367   | B    | <5x*B           | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 34.7%                | 25.2% |
| 1,2,3,4,7,8-HxCDF   | 0.066             | 0.264  | 0.215   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 1.7%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.0567            | 0.2268 | 0.299   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 2.6%                 | 1.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0673            | 0.2692 | 0.314   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.6%                 | 2.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.0702            | 0.2808 | 0.306   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 2.6%                 | 2.5%  |
| 1,2,3,4,7,8-HxCDD   | 0.0753            | 0.3012 | 0.361   | J    |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 2.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0616            | 0.2464 | 0.518   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.3%                 | 6.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.0603            | 0.2412 | 0.445   | J    |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.5%                 | 2.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.219             | 0.876  | 2.63    | --   |                 | 2.6                      | 2.6   | 0.01           | 0.0                   | 0.0   | 2.3%                 | 3.3%  |
| 1,2,3,4,7,8,9-HpCDF | 0.334             | 1.336  | 0.269   | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.111             | 0.444  | 10.9    | --   |                 | 10.9                     | 10.9  | 0.01           | 0.1                   | 0.1   | 9.5%                 | 13.8% |
| OCDF                | 0.0757            | 0.3028 | 6.16    | --   |                 | 6.2                      | 6.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.052             | 0.208  | 71      | --   |                 | 71                       | 71    | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 0.9%  |
| PCB-77              | 0.0728            | 0.2912 | 7.07    | B    | <5x*B           | 7.1                      | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-81              | 0.0994            | 0.3976 | 0.548   | B    | <5x*B           | 0.5                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.255             | 1.02   | 43      | B    | <5x*B           | 43                       | 21.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 0.267             | 1.068  | 2.35    | --   |                 | 2.4                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-118             | 0.289             | 1.156  | 91.1    | B    | <5x*B           | 91.1                     | 45.6  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |
| PCB-123             | 0.328             | 1.312  | 2.3     | --   |                 | 2.3                      | 2.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.133             | 0.532  | 2.25    | --   |                 | 2.3                      | 2.3   | 0.1            | 0.2                   | 0.2   | 19.9%                | 29.0% |
| PCB-156             | 0.194             | 0.776  | 16.7    | --   |                 | 16.7                     | 16.7  | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 1.1%  |
| PCB-157             | 0.2               | 0.8    | 4.39    | --   |                 | 4.4                      | 4.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.197             | 0.788  | 9.54    | --   |                 | 9.5                      | 9.5   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.449             | 1.796  |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.145             | 0.58   | 2.66    | --   |                 | 2.7                      | 2.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.5   | 0.2       | 0.2   | 0.9          | 0.7   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 817-B             | Bulk   | SE C-5  | SE   | Commercial      | Fines sampled broke and was replaced by April sample 143. |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|---|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations*                                  |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full  | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.064             | 0.256  | 0.288   | NJ   |                 | 0.1   |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.052             | 0.208  |         | --   |                 | 0   |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.0342            | 0.1368 | 0.16    | B    | <5x*B           | 0.2   | 0.1   | 0.05           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| 2,3,4,7,8-PeCDF     | 0.22              | 0.88   |         | E    |                 | 0.1   |       | 0.5            | 0.1                   |       | 2.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.0371            | 0.1484 | 0.285   | B    | <5x*B           | 0.3   | 0.1   | 1              | 0.3                   | 0.1   | 16.0%                | 7.1%  |
| 1,2,3,4,7,8-HxCDF   | 0.112             | 0.448  | 0.281   | B    | <5x*B           | 0.3   | 0.1   | 0.1            | 0.0                   | 0.0   | 1.6%                 | 0.7%  |
| 1,2,3,6,7,8-HxCDF   | 0.0963            | 0.3852 | 0.362   | --   |                 | 0.4   | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.4%  |
| 2,3,4,6,7,8-HxCDF   | 0.341             | 1.364  |         | E    |                 | 0.2   |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.143             | 0.572  | 0.314   | --   |                 | 0.3   | 0.2   | 0.1            | 0.0                   | 0.0   | 1.6%                 | 1.4%  |
| 1,2,3,4,7,8-HxCDD   | 0.0574            | 0.2296 | 0.494   | --   |                 | 0.5   | 0.5   | 0.1            | 0.1                   | 0.1   | 2.7%                 | 3.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.048             | 0.192  | 0.589   | --   |                 | 0.6   | 0.6   | 0.1            | 0.1                   | 0.1   | 3.2%                 | 4.3%  |
| 1,2,3,7,8,9-HxCDD   | 0.509             | 2.036  |         | E    |                 | 0.3   |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.65              | 10.6   |         | D    | <5x*B           | 0.7   |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.195             | 0.78   |         | E    |                 | 0.1   |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.096             | 0.384  | 11.2    | --   |                 | 11.2  | 11.2  | 0.01           | 0.1                   | 0.1   | 6.0%                 | 7.9%  |
| OCDF                | 0.199             | 0.796  | 4.44    | --   |                 | 4.4   | 4.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.147             | 0.588  | 81.8    | --   |                 | 81.8  | 81.8  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.6%  |
| PCB-77              | 0.0602            | 0.2408 | 28.2    | --   |                 | 28.2  | 28.2  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.0684            | 0.2736 | 1.33    | B    | <5x*B           | 1.3   | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 1.82              | 7.28   | 842     | --   |                 | 842   | 842   | 0.0001         | 0.1                   | 0.1   | 4.5%                 | 6.0%  |
| PCB-114             | 1.92              | 7.68   | 47.7    | --   |                 | 47.7  | 47.7  | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 1.7%  |
| PCB-118             | 2.13              | 8.52   | 1860    | CJ   |                 | 1860  | 930   | 0.0001         | 0.2                   | 0.1   | 9.9%                 | 6.6%  |
| PCB-123             | 2.35              | 9.4    | 32.4    | --   |                 | 32.4  | 32.4  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-126             | 0.377             | 1.508  | 6.75    | --   |                 | 6.8   | 6.8   | 0.1            | 0.7                   | 0.7   | 36.2%                | 48.2% |
| PCB-156             | 0.486             | 1.944  | 220     | --   |                 | 220   | 220   | 0.0005         | 0.1                   | 0.1   | 5.9%                 | 7.8%  |
| PCB-157             | 0.508             | 2.032  | 52.7    | --   |                 | 52.7  | 52.7  | 0.0005         | 0.0                   | 0.0   | 1.4%                 | 1.9%  |
| PCB-167             | 0.486             | 1.944  | 77.1    | --   |                 | 77.1  | 77.1  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-169             | 0.405             | 1.62   |         | E    |                 | 0.2   |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| PCB-189             | 0.291             | 1.164  | 9.18    | --   |                 | 9.2   | 9.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.4   | 1.1       | 1.0   | 1.8          | 1.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 844-B             | Bulk   | SW C-3  | SW   | Commercial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0608            | 0.2432 | 0.213   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |
| 2,3,7,8-TCDD        | 0.0422            | 0.1688 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.955             | 3.82   |         | E    |                 | 0.5                      |       | 0.05           | 0.0                   |       | 0.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0449            | 0.1796 | 1.62    | --   |                 | 1.6                      | 1.6   | 0.5            | 0.8                   | 0.8   | 4.1%                 | 5.6%  |
| 1,2,3,7,8-PeCDD     | 0.0496            | 0.1984 | 3.24    | --   |                 | 3.2                      | 3.2   | 1              | 3.2                   | 3.2   | 16.3%                | 22.3% |
| 1,2,3,4,7,8-HxCDF   | 0.2               | 0.8    | 8.4     | --   |                 | 8.4                      | 8.4   | 0.1            | 0.8                   | 0.8   | 4.3%                 | 5.8%  |
| 1,2,3,6,7,8-HxCDF   | 0.17              | 0.68   | 4.2     | --   |                 | 4.2                      | 4.2   | 0.1            | 0.4                   | 0.4   | 2.1%                 | 2.9%  |
| 2,3,4,6,7,8-HxCDF   | 0.21              | 0.84   | 7.87    | --   |                 | 7.9                      | 7.9   | 0.1            | 0.8                   | 0.8   | 4.0%                 | 5.5%  |
| 1,2,3,7,8,9-HxCDF   | 0.229             | 0.916  | 1.83    | B    | <5x*B           | 1.8                      | 0.9   | 0.1            | 0.2                   | 0.1   | 0.9%                 | 0.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.0672            | 0.2688 | 8.93    | --   |                 | 8.9                      | 8.9   | 0.1            | 0.9                   | 0.9   | 4.5%                 | 6.2%  |
| 1,2,3,6,7,8-HxCDD   | 0.0554            | 0.2216 | 21.8    | --   |                 | 21.8                     | 21.8  | 0.1            | 2.2                   | 2.2   | 11.1%                | 15.2% |
| 1,2,3,7,8,9-HxCDD   | 0.0627            | 0.2508 | 17.2    | J    |                 | 17.2                     | 8.6   | 0.1            | 1.7                   | 0.9   | 8.7%                 | 6.0%  |
| 1,2,3,4,6,7,8-HpCDF | 159               | 636    |         | D    |                 | 39.8                     |       | 0.01           | 0.4                   |       | 2.0%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.235             | 0.94   | 11.3    | --   |                 | 11.3                     | 11.3  | 0.01           | 0.1                   | 0.1   | 0.6%                 | 0.8%  |
| 1,2,3,4,6,7,8-HpCDD | 0.236             | 0.944  | 741     | CJ   |                 | 741                      | 370.5 | 0.01           | 7.4                   | 3.7   | 37.6%                | 25.8% |
| OCDF                | 0.0485            | 0.194  | 501     | --   |                 | 501                      | 501   | 0.0001         | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| OCDD                | 0.073             | 0.292  | 3880    | CJ   |                 | 3880                     | 1940  | 0.0001         | 0.4                   | 0.2   | 2.0%                 | 1.3%  |
| PCB-77              | 0.0408            | 0.1632 | 13.5    | B    | <5x*B           | 13.5                     | 6.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0436            | 0.1744 | 0.714   | B    | <5x*B           | 0.7                      | 0.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.873             | 3.492  | 71      | B    | <5x*B           | 71                       | 35.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-114             | 0.868             | 3.472  | 3.2     | B    | <5x*B           | 3.2                      | 0.8   | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.642             | 2.568  | 140     | B    | <5x*B           | 140                      | 70    | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-123             | 0.721             | 2.884  |         | --   | <5x*B           | 0.4                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |
| PCB-126             | 0.11              | 0.44   | 2.22    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 1.1%                 | 1.5%  |
| PCB-156             | 1.63              | 6.52   | 27.2    | B    | <5x*B           | 27.2                     | 13.6  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-157             | 1.71              | 6.84   | 13.5    | --   |                 | 13.5                     | 13.5  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-167             | 1.58              | 6.32   | 28.4    | --   |                 | 28.4                     | 28.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.603             | 2.412  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.435             | 1.74   | 2.49    | --   |                 | 2.5                      | 2.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 19.4              | 14.2  | 0.2       | 0.2   | 19.6         | 14.4  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 142               | Duplicate | SW C-6  | SW   | Commercial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0405            | 0.162     | 0.868   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0287            | 0.1148    | 20      | --   |                 | 20                       | 20    | 1              | 20.0                  | 20.0  | 85.9%                | 87.9% |
| 1,2,3,7,8-PeCDF     | 0.0108            | 0.0432    | 0.469   | --   |                 | 0.5                      | 0.5   | 0.05           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 2,3,4,7,8-PeCDF     | 0.0095            | 0.038     | 0.728   | --   |                 | 0.7                      | 0.7   | 0.5            | 0.4                   | 0.4   | 1.5%                 | 1.5%  |
| 1,2,3,7,8-PeCDD     | 0.73              | 2.92      |         | E    |                 | 0.4                      |       | 1              | 0.4                   |       | 1.7%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.0945            | 0.378     | 0.758   | --   |                 | 0.8                      | 0.8   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.4%  |
| 1,2,3,6,7,8-HxCDF   | 0.59              | 2.36      |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.108             | 0.432     | 0.608   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.128             | 0.512     | 0.694   | --   |                 | 0.7                      | 0.7   | 0.1            | 0.1                   | 0.1   | 0.3%                 | 0.3%  |
| 1,2,3,4,7,8-HxCDD   | 0.0562            | 0.2248    | 0.914   | --   |                 | 0.9                      | 0.9   | 0.1            | 0.1                   | 0.1   | 0.4%                 | 0.4%  |
| 1,2,3,6,7,8-HxCDD   | 0.0516            | 0.2064    | 2.18    | --   |                 | 2.2                      | 2.2   | 0.1            | 0.2                   | 0.2   | 0.9%                 | 1.0%  |
| 1,2,3,7,8,9-HxCDD   | 1.25              | 5         |         | EJ   |                 | 0.6                      |       | 0.1            | 0.1                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.266             | 1.064     | 19.5    | --   |                 | 19.5                     | 19.5  | 0.01           | 0.2                   | 0.2   | 0.8%                 | 0.9%  |
| 1,2,3,4,7,8,9-HpCDF | 0.42              | 1.68      |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.043             | 0.172     | 55.2    | --   |                 | 55.2                     | 55.2  | 0.01           | 0.6                   | 0.6   | 2.4%                 | 2.4%  |
| OCDF                | 0.0837            | 0.3348    | 23      | J    |                 | 23                       | 11.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0915            | 0.366     | 521     | --   |                 | 521                      | 521   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-77              | 0.115             | 0.46      | 50.9    | --   |                 | 50.9                     | 50.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.126             | 0.504     | 3.26    | --   |                 | 3.3                      | 3.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.805             | 3.22      | 273     | --   |                 | 273                      | 273   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-114             | 0.841             | 3.364     | 14.3    | --   |                 | 14.3                     | 14.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 0.886             | 3.544     | 509     | --   |                 | 509                      | 509   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |
| PCB-123             | 1.01              | 4.04      | 13.1    | --   |                 | 13.1                     | 13.1  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.445             | 1.78      | 9.03    | --   |                 | 9                        | 9     | 0.1            | 0.9                   | 0.9   | 3.9%                 | 4.0%  |
| PCB-156             | 1.48              | 5.92      | 90.4    | --   |                 | 90.4                     | 90.4  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-157             | 1.53              | 6.12      | 22.9    | --   |                 | 22.9                     | 22.9  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-167             | 1.5               | 6         | 43.6    | --   |                 | 43.6                     | 43.6  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.908             | 3.632     |         | E    | <5x*B           | 0.5                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.263             | 1.052     | 9.47    | --   |                 | 9.5                      | 9.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 22.4              | 21.9  | 1.0       | 1.0   | 23.4         | 22.9  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 558               | Duplicate | NE C-3  | NE   | Commercial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0315            | 0.126     | 0.112   | NJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,7,8-TCDD        | 0.0503            | 0.2012    |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.114             | 0.456     | 0.111   | B    | <5x*B           | 0.1                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0897            | 0.3588    | 0.154   | B    | <5x*B           | 0.2                      | 0     | 0.5            | 0.1                   | 0.0   | 15.5%                | 0.0%  |
| 1,2,3,7,8-PeCDD     | 0.0538            | 0.2152    | 0.215   | B    | <5x*B           | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 30.9%                | 36.3% |
| 1,2,3,4,7,8-HxCDF   | 0.0671            | 0.2684    | 0.156   | B    | <5x*B           | 0.2                      | 0     | 0.1            | 0.0                   | 0.0   | 3.1%                 | 0.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.0604            | 0.2416    | 0.274   | BD   | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0731            | 0.2924    | 0.219   | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 3.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0778            | 0.3112    | 0.268   | B    | <5x*B           | 0.3                      | 0.1   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 3.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.177             | 0.708     |         | EJ   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0404            | 0.1616    | 0.293   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.6%                 | 10.9% |
| 1,2,3,7,8,9-HxCDD   | 0.0389            | 0.1556    | 0.19    | BJ   | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 3.6%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0544            | 0.2176    | 1.64    | --   |                 | 1.6                      | 1.6   | 0.01           | 0.0                   | 0.0   | 2.5%                 | 5.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0824            | 0.3296    | 0.136   | --   |                 | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0701            | 0.2804    | 7.11    | --   |                 | 7.1                      | 7.1   | 0.01           | 0.1                   | 0.1   | 11.0%                | 25.8% |
| OCDF                | 0.0846            | 0.3384    | 4.01    | --   |                 | 4                        | 4     | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0627            | 0.2508    | 60.3    | --   |                 | 60.3                     | 60.3  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 2.2%  |
| PCB-77              | 0.09              | 0.36      | 6.78    | B    | <5x*B           | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.103             | 0.412     | 0.489   | B    | <5x*B           | 0.5                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.196             | 0.784     | 34.2    | B    | <5x*B           | 34.2                     | 17.1  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.6%  |
| PCB-114             | 0.205             | 0.82      | 2.11    | --   |                 | 2.1                      | 2.1   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.4%  |
| PCB-118             | 0.215             | 0.86      | 76.6    | B    | <5x*B           | 76.6                     | 38.3  | 0.0001         | 0.0                   | 0.0   | 1.2%                 | 1.4%  |
| PCB-123             | 0.245             | 0.98      | 1.35    | --   |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 1.35              | 5.4       |         | E    | <5x*B           | 0.7                      |       | 0.1            | 0.1                   |       | 10.8%                |       |
| PCB-156             | 0.304             | 1.216     | 17.3    | --   |                 | 17.3                     | 17.3  | 0.0005         | 0.0                   | 0.0   | 1.3%                 | 3.1%  |
| PCB-157             | 0.315             | 1.26      | 4.2     | --   |                 | 4.2                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.8%  |
| PCB-167             | 0.31              | 1.24      | 8.82    | --   |                 | 8.8                      | 8.8   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0758            | 0.3032    | 0.312   | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 1.1%  |
| PCB-189             | 0.123             | 0.492     | 3.69    | --   |                 | 3.7                      | 3.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.1       | 0.0   | 0.5          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 584               | Duplicate | SE C-5  | SE   | Commercial      | Changed from NE I-3 to Duplicate of 143 (SE C-5) based on field notes |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|---|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations*  |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full  | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.389             | 1.556     |         | E    |                 | 0.2   |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 2,3,7,8-TCDD        | 0.0436            | 0.1744    | 0.125   | --   |                 | 0.1   | 0.1   | 1              | 0.1                   | 0.1   | 5.3%                 | 6.6%  |
| 1,2,3,7,8-PeCDF     | 0.122             | 0.488     |         | E    | <5x*B           | 0.1   |       | 0.05           | 0.0                   |       | 0.3%                 |       |
| 2,3,4,7,8-PeCDF     | 0.26              | 1.04      |         | E    |                 | 0.1   |       | 0.5            | 0.1                   |       | 2.7%                 |       |
| 1,2,3,7,8-PeCDD     | 0.054             | 0.216     | 0.443   | B    | <5x*B           | 0.4   | 0.2   | 1              | 0.4                   | 0.2   | 21.3%                | 13.1% |
| 1,2,3,4,7,8-HxCDF   | 0.076             | 0.304     | 0.4     | B    | <5x*B           | 0.4   | 0.2   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 1.3%  |
| 1,2,3,6,7,8-HxCDF   | 0.069             | 0.276     | 0.532   | --   |                 | 0.5   | 0.5   | 0.1            | 0.1                   | 0.1   | 2.7%                 | 3.3%  |
| 2,3,4,6,7,8-HxCDF   | 0.0884            | 0.3536    | 0.431   | --   |                 | 0.4   | 0.4   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 2.6%  |
| 1,2,3,7,8,9-HxCDF   | 0.0926            | 0.3704    | 0.448   | --   |                 | 0.4   | 0.4   | 0.1            | 0.0                   | 0.0   | 2.1%                 | 2.6%  |
| 1,2,3,4,7,8-HxCDD   | 0.439             | 1.756     |         | E    |                 | 0.2   |       | 0.1            | 0.0                   |       | 1.1%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0725            | 0.29      | 0.708   | --   |                 | 0.7   | 0.7   | 0.1            | 0.1                   | 0.1   | 3.7%                 | 4.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.586             | 2.344     |         | E    |                 | 0.3   |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 2.77              | 11.08     |         | D    | <5x*B           | 0.7   |       | 0.01           | 0.0                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.141             | 0.564     |         | --   |                 | 0.1   |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.112             | 0.448     | 13.8    | --   |                 | 13.8  | 13.8  | 0.01           | 0.1                   | 0.1   | 7.3%                 | 9.0%  |
| OCDF                | 0.14              | 0.56      | 4.94    | --   |                 | 4.9   | 4.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.113             | 0.452     | 100     | --   |                 | 100   | 100   | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.7%  |
| PCB-77              | 0.0608            | 0.2432    | 24      | B    | <5x*B           | 24  | 12    | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0694            | 0.2776    | 1.3     | B    | <5x*B           | 1.3   | 0.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.753             | 3.012     | 557     | --   |                 | 557   | 557   | 0.0001         | 0.1                   | 0.1   | 3.0%                 | 3.7%  |
| PCB-114             | 0.793             | 3.172     | 32.9    | --   |                 | 32.9  | 32.9  | 0.0005         | 0.0                   | 0.0   | 0.9%                 | 1.1%  |
| PCB-118             | 0.866             | 3.464     | 1240    | --   |                 | 1240  | 1240  | 0.0001         | 0.1                   | 0.1   | 6.6%                 | 8.1%  |
| PCB-123             | 0.953             | 3.812     | 22.2    | --   |                 | 22.2  | 22.2  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 0.528             | 2.112     | 5.61    | --   |                 | 5.6   | 5.6   | 0.1            | 0.6                   | 0.6   | 29.8%                | 36.7% |
| PCB-156             | 0.684             | 2.736     | 143     | --   |                 | 143   | 143   | 0.0005         | 0.1                   | 0.1   | 3.8%                 | 4.7%  |
| PCB-157             | 0.714             | 2.856     | 36.1    | --   |                 | 36.1  | 36.1  | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.2%  |
| PCB-167             | 0.683             | 2.732     | 54.7    | --   |                 | 54.7  | 54.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.074             | 0.296     | 0.57    | --   |                 | 0.6   | 0.6   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.4%  |
| PCB-189             | 0.783             | 3.132     | 7.52    | --   |                 | 7.5   | 7.5   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.9               | 0.6   | 0.9       | 0.9   | 1.8          | 1.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 271-B             | Bulk   | SE I-7  | SE   | Industrial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0776            | 0.3104 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0106            | 0.0424 | 0.112   | --   |                 | 0.1                      | 0.1   | 1              | 0.1                   | 0.1   | 4.6%                 | 5.0%  |
| 1,2,3,7,8-PeCDF     | 0.24              | 0.96   |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0264            | 0.1056 | 0.278   | --   |                 | 0.3                      | 0.3   | 0.5            | 0.2                   | 0.2   | 7.0%                 | 7.4%  |
| 1,2,3,7,8-PeCDD     | 0.00798           | 0.0319 | 0.549   | --   |                 | 0.5                      | 0.5   | 1              | 0.5                   | 0.5   | 23.2%                | 24.8% |
| 1,2,3,4,7,8-HxCDF   | 0.0838            | 0.3352 | 0.359   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 2.0%  |
| 1,2,3,6,7,8-HxCDF   | 0.313             | 1.252  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.0879            | 0.3516 | 0.551   | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 2.8%                 | 3.0%  |
| 1,2,3,7,8,9-HxCDF   | 0.0929            | 0.3716 | 0.393   | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 1.9%                 | 1.0%  |
| 1,2,3,4,7,8-HxCDD   | 0.0251            | 0.1004 | 0.584   | B    | <5x*B           | 0.6                      | 0.3   | 0.1            | 0.1                   | 0.0   | 2.8%                 | 1.5%  |
| 1,2,3,6,7,8-HxCDD   | 0.0229            | 0.0916 | 0.98    | --   |                 | 1                        | 1     | 0.1            | 0.1                   | 0.1   | 4.6%                 | 5.0%  |
| 1,2,3,7,8,9-HxCDD   | 0.0249            | 0.0996 | 1.06    | J    |                 | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 5.1%                 | 2.5%  |
| 1,2,3,4,6,7,8-HpCDF | 0.128             | 0.512  | 4.48    | --   |                 | 4.5                      | 4.5   | 0.01           | 0.0                   | 0.0   | 2.1%                 | 2.2%  |
| 1,2,3,4,7,8,9-HpCDF | 0.514             | 2.056  |         | E    |                 | 0.3                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0445            | 0.178  | 19.5    | --   |                 | 19.5                     | 19.5  | 0.01           | 0.2                   | 0.2   | 9.1%                 | 9.7%  |
| OCDF                | 0.0546            | 0.2184 | 10.3    | J    |                 | 10.3                     | 5.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0734            | 0.2936 | 184     | --   |                 | 184                      | 184   | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.9%  |
| PCB-77              | 0.0323            | 0.1292 | 36.7    | --   |                 | 36.7                     | 36.7  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-81              | 0.0374            | 0.1496 | 1.97    | B    | <5x*B           | 2                        | 1     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.974             | 3.896  | 172     | --   |                 | 172                      | 172   | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.9%  |
| PCB-114             | 1.02              | 4.08   | 8.68    | --   |                 | 8.7                      | 8.7   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 1.09              | 4.36   | 292     | --   |                 | 292                      | 292   | 0.0001         | 0.0                   | 0.0   | 1.4%                 | 1.4%  |
| PCB-123             | 1.24              | 4.96   | 6.98    | --   |                 | 7                        | 7     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.124             | 0.496  | 6.11    | --   |                 | 6.1                      | 6.1   | 0.1            | 0.6                   | 0.6   | 28.3%                | 30.3% |
| PCB-156             | 0.853             | 3.412  | 53.8    | --   |                 | 53.8                     | 53.8  | 0.0005         | 0.0                   | 0.0   | 1.2%                 | 1.3%  |
| PCB-157             | 0.882             | 3.528  | 13      | --   |                 | 13                       | 13    | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-167             | 0.867             | 3.468  | 25.4    | --   |                 | 25.4                     | 25.4  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0907            | 0.3628 | 0.67    | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.3%  |
| PCB-189             | 0.282             | 1.128  | 5.87    | --   |                 | 5.9                      | 5.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.4               | 1.3   | 0.6       | 0.6   | 2.0          | 1.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 326-B             | Bulk  | SE I-5  | SE   | Industrial      |                          |       |                |                       |       |                      |       |       |       |      |       |      |
|---------------------|-------------------|-------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|-------|-------|------|-------|------|
| Analyte             | Analytical Limits |       | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |       |       |      |       |      |
|                     | EDL               | QL    | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full  | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.127             | 0.508 |         | I    |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      |       | 0.6%  |       |      |       |      |
| 2,3,7,8-TCDD        | 0.161             | 0.644 |         | I    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 5.6%  |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.242             | 0.968 |         | I    |                 | 0.1                      |       | 0.05           | 0.0                   |       |                      |       | 0.3%  |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.711             | 2.844 |         | EI   |                 | 0.4                      |       | 0.5            | 0.2                   |       |                      |       | 11.2% |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.195             | 0.78  |         | I    |                 | 0.1                      |       | 1              | 0.1                   |       |                      |       | 5.6%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.238             | 0.952 | 0.46    | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   |                      |       | 2.8%  | 1.8%  |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.383             | 1.532 |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.619             | 2.476 | 2.85    | --   |                 | 2.9                      | 2.9   | 0.1            | 0.3                   | 0.3   |                      |       | 16.3% | 25.7% |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.894             | 7.576 |         | I    |                 | 0.9                      |       | 0.1            | 0.1                   |       |                      |       | 5.0%  |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.122             | 0.488 | 0.478   | --   |                 | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   |                      |       | 2.8%  | 1.8%  |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.14              | 0.56  | 0.548   | --   |                 | 0.5                      | 0.3   | 0.1            | 0.1                   | 0.0   |                      |       | 2.8%  | 2.7%  |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.362             | 1.448 |         | EJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       |                      |       | 1.1%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.259             | 1.036 | 1.73    | --   |                 | 1.7                      | 1.7   | 0.01           | 0.0                   | 0.0   |                      |       | 1.0%  | 1.5%  |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.932             | 3.728 |         | --   |                 | 0.5                      |       | 0.01           | 0.0                   |       |                      |       | 0.3%  |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.349             | 1.396 | 12      | --   |                 | 12                       | 12    | 0.01           | 0.1                   | 0.1   |                      |       | 6.7%  | 10.6% |      |       |      |
| OCDF                | 0.568             | 2.272 | 5.15    | IJ   |                 | 5.2                      | 2.6   | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  | 0.0%  |      |       |      |
| OCDD                | 0.835             | 3.34  | 77.8    | I    |                 | 77.8                     | 77.8  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.4%  | 0.7%  |      |       |      |
| PCB-77              | 0.307             | 1.228 | 25.1    | B    | <5x*B           | 25.1                     | 12.6  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.1%  | 0.1%  |      |       |      |
| PCB-81              | 0.372             | 1.488 | 1.99    | --   |                 | 2                        | 2     | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  | 0.0%  |      |       |      |
| PCB-105             | 0.429             | 1.716 | 123     | B    | <5x*B           | 123                      | 61.5  | 0.0001         | 0.0                   | 0.0   |                      |       | 0.7%  | 0.5%  |      |       |      |
| PCB-114             | 0.449             | 1.796 | 4.35    | --   |                 | 4.4                      | 4.4   | 0.0005         | 0.0                   | 0.0   |                      |       | 0.1%  | 0.2%  |      |       |      |
| PCB-118             | 0.46              | 1.84  | 267     | B    | <5x*B           | 267                      | 133.5 | 0.0001         | 0.0                   | 0.0   |                      |       | 1.5%  | 1.2%  |      |       |      |
| PCB-123             | 0.523             | 2.092 | 6.76    | J    |                 | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  | 0.0%  |      |       |      |
| PCB-126             | 1.16              | 4.64  | 5.61    | --   |                 | 5.6                      | 5.6   | 0.1            | 0.6                   | 0.6   |                      |       | 31.4% | 49.6% |      |       |      |
| PCB-156             | 0.282             | 1.128 | 61.2    | --   |                 | 61.2                     | 61.2  | 0.0005         | 0.0                   | 0.0   |                      |       | 1.7%  | 2.7%  |      |       |      |
| PCB-157             | 0.291             | 1.164 | 15.3    | --   |                 | 15.3                     | 15.3  | 0.0005         | 0.0                   | 0.0   |                      |       | 0.4%  | 0.7%  |      |       |      |
| PCB-167             | 0.286             | 1.144 | 33      | --   |                 | 33                       | 33    | 0.00001        | 0.0                   | 0.0   |                      |       | 0.0%  | 0.0%  |      |       |      |
| PCB-169             | 0.64              | 2.56  | 0.482   | I    |                 | 0.3                      |       | 0.01           | 0.0                   |       |                      |       | 0.2%  |       |      |       |      |
| PCB-189             | 0.212             | 0.848 | 8.31    | --   |                 | 8.3                      | 8.3   | 0.0001         | 0.0                   | 0.0   |                      |       | 0.0%  | 0.1%  |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 1.2               | 0.4   | 0.6       | 0.6   | 1.8          | 1.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 181               | Duplicate | SE I-3 | SE      | Industrial |                 |                          |         |          |       |                       |       |                      |       |      |  |  |
|---------------------|-------------------|-----------|--------|---------|------------|-----------------|--------------------------|---------|----------|-------|-----------------------|-------|----------------------|-------|------|--|--|
| Analyte             | Analytical Limits |           |        | Results |            | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |       | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |  |  |
|                     | EDL               | QL        | Conc   | Flag    | Full       |                 | Quant                    | Human   | Full     | Quant | Full                  | Quant | Full                 | Quant |      |  |  |
| 2,3,7,8-TCDF        | 0.161             | 0.644     | 0.663  | NJ      |            | 0.3             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.6%  |      |  |  |
| 2,3,7,8-TCDD        | 0.0381            | 0.1524    |        | --      |            | 0               |                          | 1       |          | 0.0   |                       |       |                      | 0.0%  |      |  |  |
| 1,2,3,7,8-PeCDF     | 0.248             | 0.992     |        | --      |            | 0.1             |                          | 0.05    |          | 0.0   |                       |       |                      | 0.1%  |      |  |  |
| 2,3,4,7,8-PeCDF     | 0.221             | 0.884     | 3.01   | --      |            | 3               | 3                        | 0.5     |          | 1.5   | 1.5                   | 30.9% | 38.2%                |       |      |  |  |
| 1,2,3,7,8-PeCDD     | 0.869             | 3.476     |        | E       |            | 0.4             |                          | 1       |          | 0.4   |                       |       |                      | 8.2%  |      |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.178             | 0.712     | 3.11   | --      |            | 3.1             | 3.1                      | 0.1     |          | 0.3   | 0.3                   | 6.4%  | 7.9%                 |       |      |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.159             | 0.636     |        | --      |            | 0.1             |                          | 0.1     |          | 0.0   |                       |       |                      | 0.2%  |      |  |  |
| 2,3,4,6,7,8-HxCDF   | 11.5              | 46        |        | D       | <5x*B      | 2.9             |                          | 0.1     |          | 0.3   |                       |       |                      | 6.0%  |      |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.918             | 3.672     |        | E       | <5x*B      | 0.5             |                          | 0.1     |          | 0.1   |                       |       |                      | 1.0%  |      |  |  |
| 1,2,3,4,7,8-HxCDD   | 1.08              | 4.32      |        | E       |            | 0.5             |                          | 0.1     |          | 0.1   |                       |       |                      | 1.0%  |      |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.124             | 0.496     | 2.81   | --      |            | 2.8             | 2.8                      | 0.1     |          | 0.3   | 0.3                   | 5.8%  | 7.1%                 |       |      |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.128             | 0.512     | 1.9    | --      |            | 1.9             | 1.9                      | 0.1     |          | 0.2   | 0.2                   | 3.9%  | 4.8%                 |       |      |  |  |
| 1,2,3,4,6,7,8-HpCDF | 24.5              | 98        |        | D       |            | 6.1             |                          | 0.01    |          | 0.1   |                       |       |                      | 1.3%  |      |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.307             | 1.228     | 2.06   | --      |            | 2.1             | 2.1                      | 0.01    |          | 0.0   | 0.0                   |       |                      | 0.4%  | 0.5% |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.12              | 0.48      | 69.6   | --      |            | 69.6            | 69.6                     | 0.01    |          | 0.7   | 0.7                   | 14.3% | 17.7%                |       |      |  |  |
| OCDF                | 0.184             | 0.736     | 38.7   | J       |            | 38.7            | 19.4                     | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.1%  | 0.0% |  |  |
| OCDD                | 0.225             | 0.9       | 684    | --      |            | 684             | 684                      | 0.0001  |          | 0.1   | 0.1                   |       |                      | 1.4%  | 1.7% |  |  |
| PCB-77              | 0.05              | 0.2       | 33     | --      |            | 33              | 33                       | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.1%  | 0.1% |  |  |
| PCB-81              | 0.0493            | 0.1972    | 1.59   | B       | <5x*B      | 1.6             | 0.8                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  | 0.0% |  |  |
| PCB-105             | 2.1               | 8.4       | 194    | --      |            | 194             | 194                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.4%  | 0.5% |  |  |
| PCB-114             | 2.19              | 8.76      | 7.46   | --      |            | 7.5             | 3.7                      | 0.0005  |          | 0.0   | 0.0                   |       |                      | 0.1%  | 0.0% |  |  |
| PCB-118             | 2.33              | 9.32      | 444    | J       |            | 444             | 222                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.9%  | 0.6% |  |  |
| PCB-123             | 2.65              | 10.6      | 11.2   | J       |            | 11.2            | 5.6                      | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  | 0.0% |  |  |
| PCB-126             | 0.441             | 1.764     | 7.37   | --      |            | 7.4             | 7.4                      | 0.1     |          | 0.7   | 0.7                   | 15.2% | 18.8%                |       |      |  |  |
| PCB-156             | 0.928             | 3.712     | 103    | --      |            | 103             | 103                      | 0.0005  |          | 0.1   | 0.1                   |       |                      | 1.1%  | 1.3% |  |  |
| PCB-157             | 0.96              | 3.84      | 27.6   | --      |            | 27.6            | 27.6                     | 0.0005  |          | 0.0   | 0.0                   |       |                      | 0.3%  | 0.4% |  |  |
| PCB-167             | 0.944             | 3.776     | 55.5   | --      |            | 55.5            | 55.5                     | 0.00001 |          | 0.0   | 0.0                   |       |                      | 0.0%  | 0.0% |  |  |
| PCB-169             | 0.164             | 0.656     | 1.1    | B       | <5x*B      | 1.1             | 0.6                      | 0.01    |          | 0.0   | 0.0                   |       |                      | 0.2%  | 0.2% |  |  |
| PCB-189             | 0.498             | 1.992     | 15.4   | --      |            | 15.4            | 15.4                     | 0.0001  |          | 0.0   | 0.0                   |       |                      | 0.0%  | 0.0% |  |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 4.1               | 3.1   | 0.8       | 0.8   | 4.9          | 3.9   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 863               | Duplicate | NE I-1  | NE   | Industrial      |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0238            | 0.0952    | 0.822   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0328            | 0.1312    | 0.443   | --   |                 | 0.4                      | 0.4   | 1              | 0.4                   | 0.4   | 0.7%                 | 1.0%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.154             | 0.616     | 2.08    | --   |                 | 2.1                      | 2.1   | 0.05           | 0.1                   | 0.1   | 0.2%                 | 0.3%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.151             | 0.604     | 5.53    | --   |                 | 5.5                      | 5.5   | 0.5            | 2.8                   | 2.8   | 4.9%                 | 6.7%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.131             | 0.524     | 6.92    | --   |                 | 6.9                      | 6.9   | 1              | 6.9                   | 6.9   | 12.2%                | 16.8% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.641             | 2.564     | 19      | --   |                 | 19                       | 19    | 0.1            | 1.9                   | 1.9   | 3.4%                 | 4.6%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 43.2              | 172.8     |         | D    |                 | 10.8                     |       | 0.1            | 1.1                   |       | 1.9%                 |       |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 1.5               | 6         | 21.5    | --   |                 | 21.5                     | 21.5  | 0.1            | 2.2                   | 2.2   | 3.8%                 | 5.2%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.01              | 4.04      | 3.66    | --   |                 | 3.7                      | 1.8   | 0.1            | 0.4                   | 0.2   | 0.7%                 | 0.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0786            | 0.3144    | 20.6    | --   |                 | 20.6                     | 20.6  | 0.1            | 2.1                   | 2.1   | 3.6%                 | 5.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0639            | 0.2556    | 66.8    | --   |                 | 66.8                     | 66.8  | 0.1            | 6.7                   | 6.7   | 11.8%                | 16.2% |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0768            | 0.3072    | 35.7    | --   |                 | 35.7                     | 35.7  | 0.1            | 3.6                   | 3.6   | 6.3%                 | 8.7%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.34              | 1.36      | 524     | J    |                 | 524                      | 262   | 0.01           | 5.2                   | 2.6   | 9.3%                 | 6.4%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.792             | 3.168     | 26.3    | --   |                 | 26.3                     | 26.3  | 0.01           | 0.3                   | 0.3   | 0.5%                 | 0.6%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0567            | 0.2268    | 1980    | CJ   |                 | 1980                     | 990   | 0.01           | 19.8                  | 9.9   | 35.1%                | 24.0% |      |       |      |       |      |
| OCDF                | 0.2               | 0.8       | 1340    | J    |                 | 1340                     | 670   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |      |
| OCDD                | 0.167             | 0.668     | 6860    | SJ   |                 | 6860                     | 3430  | 0.0001         | 0.7                   | 0.3   | 1.2%                 | 0.8%  |      |       |      |       |      |
| PCB-77              | 1.53              | 6.12      | 77.5    | I    |                 | 77.5                     | 77.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 1.59              | 6.36      |         | I    |                 | 0.8                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-105             | 8                 | 32        | 455     | --   |                 | 455                      | 455   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-114             | 7.95              | 31.8      |         | --   | <5x*B           | 4                        |       | 0.0005         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-118             | 7.37              | 29.48     | 881     | --   |                 | 881                      | 881   | 0.0001         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-123             | 8.29              | 33.16     |         | --   |                 | 4.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 1.09              | 4.36      | 20.3    | J    |                 | 20.3                     | 10.2  | 0.1            | 2.0                   | 1.0   | 3.6%                 | 2.5%  |      |       |      |       |      |
| PCB-156             | 2.47              | 9.88      | 204     | --   |                 | 204                      | 204   | 0.0005         | 0.1                   | 0.1   | 0.2%                 | 0.2%  |      |       |      |       |      |
| PCB-157             | 2.6               | 10.4      | 48.9    | --   |                 | 48.9                     | 48.9  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 2.39              | 9.56      | 112     | --   |                 | 112                      | 112   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 2.02              | 8.08      |         | E    |                 | 1                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-189             | 4.42              | 17.68     | 27.3    | --   |                 | 27.3                     | 27.3  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 54.3              | 40.1  | 2.2       | 1.2   | 56.5         | 41.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 197               | Split  | NW I-1  | NW   | Industrial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0555            | 0.222  |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.0321            | 0.1284 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.236             | 0.944  |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.6%                 |       |
| 2,3,4,7,8-PeCDF     | 0.121             | 0.484  | 0.282   | --   |                 | 0.3                      | 0.1   | 0.5            | 0.2                   | 0.1   | 18.3%                | 23.1% |
| 1,2,3,7,8-PeCDD     | 0.553             | 2.212  |         | E    |                 | 0.3                      |       | 1              | 0.3                   |       | 36.6%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.224             | 0.896  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0356            | 0.1424 | 0.485   | B    | <5x*B           | 0.5                      | 0.2   | 0.1            | 0.1                   | 0.0   | 6.1%                 | 9.2%  |
| 2,3,4,6,7,8-HxCDF   | 0.282             | 1.128  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.2%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.511             | 2.044  |         | E    | <5x*B           | 0.3                      |       | 0.1            | 0.0                   |       | 3.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.387             | 1.548  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.373             | 1.492  |         | E    |                 | 0.2                      |       | 0.1            | 0.0                   |       | 2.4%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.0792            | 0.3168 | 0.413   | J    |                 | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.9%                 | 9.2%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0655            | 0.262  | 1.51    | B    | <5x*B           | 1.5                      | 0.8   | 0.01           | 0.0                   | 0.0   | 1.8%                 | 3.7%  |
| 1,2,3,4,7,8,9-HpCDF | 0.118             | 0.472  |         | --   |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.147             | 0.588  | 6.43    | --   |                 | 6.4                      | 6.4   | 0.01           | 0.1                   | 0.1   | 7.8%                 | 29.5% |
| OCDF                | 0.532             | 2.128  | 3.81    | BI   | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.521             | 2.084  | 62.4    | I    |                 | 62.4                     | 62.4  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 2.9%  |
| PCB-77              | 0.102             | 0.408  | 4.33    | B    | <5x*B           | 4.3                      | 2.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0816            | 0.3264 | 0.572   | B    | <5x*B           | 0.6                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.201             | 0.804  | 23.7    | B    | <5x*B           | 23.7                     | 11.9  | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.5%  |
| PCB-114             | 1.39              | 5.56   |         | E    |                 | 0.7                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.166             | 0.664  | 47.6    | BI   | <5x*B           | 47.6                     | 23.8  | 0.0001         | 0.0                   | 0.0   | 0.6%                 | 1.1%  |
| PCB-123             | 0.188             | 0.752  | 1.36    | I    |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-126             | 0.292             | 1.168  | 0.824   | --   |                 | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 9.7%                 | 18.5% |
| PCB-156             | 0.175             | 0.7    | 13.6    | B    | <5x*B           | 13.6                     | 6.8   | 0.0005         | 0.0                   | 0.0   | 0.8%                 | 1.6%  |
| PCB-157             | 0.176             | 0.704  | 3.93    | B    | <5x*B           | 3.9                      | 2     | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.5%  |
| PCB-167             | 6.59              | 26.36  |         | EJ   | <5x*B           | 3.3                      |       | 0.00001        | 0.0                   |       | 0.0%                 |       |
| PCB-169             | 0.316             | 1.264  |         | E    | <5x*B           | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| PCB-189             | 0.37              | 1.48   |         | --   |                 | 0.2                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.2   | 0.1       | 0.0   | 0.8          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 494               | Split  | SW I-3  | SW   | Industrial      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0111            | 0.0444 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00576           | 0.0230 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.195             | 0.78   |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 1.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.204             | 0.816  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       | 10.1%                |       |
| 1,2,3,7,8-PeCDD     | 0.253             | 1.012  |         | E    | <5x*B           | 0.1                      |       | 1              | 0.1                   |       | 20.2%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.226             | 0.904  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.235             | 0.94   |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.21              | 0.84   |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.0175            | 0.07   | 0.307   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.1%                 | 10.2% |
| 1,2,3,4,7,8-HxCDD   | 0.202             | 0.808  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       | 2.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.0205            | 0.082  | 0.307   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.1%                 | 10.2% |
| 1,2,3,7,8,9-HxCDD   | 0.0211            | 0.0844 | 0.301   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 6.1%                 | 10.2% |
| 1,2,3,4,6,7,8-HpCDF | 0.0183            | 0.0732 | 1.25    | --   |                 | 1.3                      | 1.3   | 0.01           | 0.0                   | 0.0   | 2.6%                 | 4.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0295            | 0.118  | 0.162   | --   |                 | 0.2                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.4%                 | 0.7%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0232            | 0.0928 | 5.24    | --   |                 | 5.2                      | 5.2   | 0.01           | 0.1                   | 0.1   | 10.5%                | 17.6% |
| OCDF                | 0.0291            | 0.1164 | 1.99    | --   |                 | 2                        | 2     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 0.0196            | 0.0784 | 39.2    | --   |                 | 39.2                     | 39.2  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.3%  |
| PCB-77              | 0.0178            | 0.0712 | 6.42    | B    | <5x*B           | 6.4                      | 3.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0211            | 0.0844 | 0.424   | B    | <5x*B           | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.185             | 0.74   | 26.1    | B    | <5x*B           | 26.1                     | 13.1  | 0.0001         | 0.0                   | 0.0   | 0.5%                 | 0.4%  |
| PCB-114             | 0.193             | 0.772  | 1.18    | B    | <5x*B           | 1.2                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-118             | 0.181             | 0.724  | 51.6    | B    | <5x*B           | 51.6                     | 25.8  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 0.9%  |
| PCB-123             | 0.205             | 0.82   | 1.6     | J    |                 | 1.6                      | 0.8   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.0668            | 0.2672 | 1.21    | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 24.2%                | 40.6% |
| PCB-156             | 0.195             | 0.78   | 9.84    | --   |                 | 9.8                      | 9.8   | 0.0005         | 0.0                   | 0.0   | 1.0%                 | 1.7%  |
| PCB-157             | 0.202             | 0.808  | 3.28    | --   |                 | 3.3                      | 3.3   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.6%  |
| PCB-167             | 0.199             | 0.796  | 5.95    | --   |                 | 6                        | 6     | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0356            | 0.1424 | 0.274   | --   |                 | 0.3                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.6%                 | 1.0%  |
| PCB-189             | 1.37              | 5.48   |         | E    |                 | 0.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.1   | 0.1       | 0.1   | 0.4          | 0.2   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 602               | Split  | SE I-9  | SE   | Industrial      |                          |       |                |                       |       |                      |       |      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant |
| 2,3,7,8-TCDF        | 0.0592            | 0.2368 | 0.636   | NJ   |                 | 0.3                      |       | 0.1            | 0.0                   |       | 0.4%                 |       |      |       |
| 2,3,7,8-TCDD        | 0.107             | 0.428  | 0.425   | --   |                 | 0.4                      | 0.2   | 1              | 0.4                   | 0.2   | 4.7%                 | 2.9%  |      |       |
| 1,2,3,7,8-PeCDF     | 0.603             | 2.412  | 0.644   | B    | <5x*B           | 0.6                      | 0.2   | 0.05           | 0.0                   | 0.0   | 0.4%                 | 0.1%  |      |       |
| 2,3,4,7,8-PeCDF     | 0.497             | 1.988  | 2.63    | --   |                 | 2.6                      | 2.6   | 0.5            | 1.3                   | 1.3   | 15.3%                | 18.8% |      |       |
| 1,2,3,7,8-PeCDD     | 0.138             | 0.552  | 1       | B    | <5x*B           | 1                        | 0.5   | 1              | 1.0                   | 0.5   | 11.8%                | 7.2%  |      |       |
| 1,2,3,4,7,8-HxCDF   | 0.368             | 1.472  | 2.31    | --   |                 | 2.3                      | 2.3   | 0.1            | 0.2                   | 0.2   | 2.7%                 | 3.3%  |      |       |
| 1,2,3,6,7,8-HxCDF   | 0.346             | 1.384  | 5.12    | D    |                 | 2.6                      |       | 0.1            | 0.3                   |       | 3.1%                 |       |      |       |
| 2,3,4,6,7,8-HxCDF   | 0.401             | 1.604  | 2.79    | --   |                 | 2.8                      | 2.8   | 0.1            | 0.3                   | 0.3   | 3.3%                 | 4.1%  |      |       |
| 1,2,3,7,8,9-HxCDF   | 0.422             | 1.688  | 0.721   | B    | <5x*B           | 0.7                      | 0.2   | 0.1            | 0.1                   | 0.0   | 0.8%                 | 0.3%  |      |       |
| 1,2,3,4,7,8-HxCDD   | 0.113             | 0.452  | 1.94    | J    |                 | 1.9                      | 1     | 0.1            | 0.2                   | 0.1   | 2.2%                 | 1.4%  |      |       |
| 1,2,3,6,7,8-HxCDD   | 0.0951            | 0.3804 | 5.7     | --   |                 | 5.7                      | 5.7   | 0.1            | 0.6                   | 0.6   | 6.7%                 | 8.3%  |      |       |
| 1,2,3,7,8,9-HxCDD   | 0.0923            | 0.3692 | 3.07    | J    |                 | 3.1                      | 1.5   | 0.1            | 0.3                   | 0.2   | 3.7%                 | 2.2%  |      |       |
| 1,2,3,4,6,7,8-HpCDF | 64.2              | 256.8  |         | D    | <5x*B           | 16.1                     |       | 0.01           | 0.2                   |       | 1.9%                 |       |      |       |
| 1,2,3,4,7,8,9-HpCDF | 0.912             | 3.648  | 2.57    | --   |                 | 2.6                      | 1.3   | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |
| 1,2,3,4,6,7,8-HpCDD | 0.237             | 0.948  | 171     | --   |                 | 171                      | 171   | 0.01           | 1.7                   | 1.7   | 20.2%                | 24.8% |      |       |
| OCDF                | 0.0695            | 0.278  | 149     | --   |                 | 149                      | 149   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |      |       |
| OCDD                | 0.0788            | 0.3152 | 1270    | --   |                 | 1270                     | 1270  | 0.0001         | 0.1                   | 0.1   | 1.5%                 | 1.8%  |      |       |
| PCB-77              | 0.411             | 1.644  | 47.6    | --   |                 | 47.6                     | 47.6  | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |
| PCB-81              | 0.406             | 1.624  | 1.83    | B    | <5x*B           | 1.8                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |
| PCB-105             | 2.68              | 10.72  | 821     | --   |                 | 821                      | 821   | 0.0001         | 0.1                   | 0.1   | 1.0%                 | 1.2%  |      |       |
| PCB-114             | 2.81              | 11.24  | 38.4    | --   |                 | 38.4                     | 38.4  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |
| PCB-118             | 2.91              | 11.64  | 1890    | CJ   |                 | 1890                     | 945   | 0.0001         | 0.2                   | 0.1   | 2.2%                 | 1.4%  |      |       |
| PCB-123             | 3.31              | 13.24  | 27      | --   |                 | 27                       | 27    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |
| PCB-126             | 0.211             | 0.844  | 13      | --   |                 | 13                       | 13    | 0.1            | 1.3                   | 1.3   | 15.3%                | 18.8% |      |       |
| PCB-156             | 0.246             | 0.984  | 258     | --   |                 | 258                      | 258   | 0.0005         | 0.1                   | 0.1   | 1.5%                 | 1.9%  |      |       |
| PCB-157             | 0.255             | 1.02   | 69.7    | --   |                 | 69.7                     | 69.7  | 0.0005         | 0.0                   | 0.0   | 0.4%                 | 0.5%  |      |       |
| PCB-167             | 0.25              | 1      | 117     | --   |                 | 117                      | 117   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |
| PCB-169             | 0.136             | 0.544  | 0.729   | --   |                 | 0.7                      | 0.7   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |
| PCB-189             | 0.116             | 0.464  | 14.9    | --   |                 | 14.9                     | 14.9  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 6.7               | 5.2   | 1.7       | 1.6   | 8.4          | 6.8   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 138               | Duplicate | NE S-6  | NE   | Open Space      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0332            | 0.1328    |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00345           | 0.0138    |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.189             | 0.756     |         | E    |                 | 0.1                      |       | 0.05           | 0.0                   |       | 0.8%                 |       |
| 2,3,4,7,8-PeCDF     | 0.0205            | 0.082     | 0.168   | I    |                 | 0.2                      | 0.2   | 0.5            | 0.1                   | 0.1   | 15.5%                | 23.4% |
| 1,2,3,7,8-PeCDD     | 0.253             | 1.012     |         | E    |                 | 0.1                      |       | 1              | 0.1                   |       | 15.5%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.223             | 0.892     |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 1.6%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0182            | 0.0728    | 0.215   | --   |                 | 0.2                      | 0.2   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 4.7%  |
| 2,3,4,6,7,8-HxCDF   | 0.0256            | 0.1024    | 0.22    | B    | <5x*B           | 0.2                      | 0.1   | 0.1            | 0.0                   | 0.0   | 3.1%                 | 2.3%  |
| 1,2,3,7,8,9-HxCDF   | 0.0339            | 0.1356    | 0.342   | B    | <5x*B           | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 4.7%  |
| 1,2,3,4,7,8-HxCDD   | 0.0299            | 0.1196    | 0.305   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 7.0%  |
| 1,2,3,6,7,8-HxCDD   | 0.0262            | 0.1048    | 0.466   | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 7.8%                 | 11.7% |
| 1,2,3,7,8,9-HxCDD   | 0.029             | 0.116     | 0.337   | J    |                 | 0.3                      | 0.2   | 0.1            | 0.0                   | 0.0   | 4.7%                 | 4.7%  |
| 1,2,3,4,6,7,8-HpCDF | 0.0344            | 0.1376    | 2.94    | I    |                 | 2.9                      | 2.9   | 0.01           | 0.0                   | 0.0   | 4.5%                 | 6.8%  |
| 1,2,3,4,7,8,9-HpCDF | 0.305             | 1.22      |         | E    |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.0401            | 0.1604    | 8.2     | --   |                 | 8.2                      | 8.2   | 0.01           | 0.1                   | 0.1   | 12.7%                | 19.2% |
| OCDF                | 0.0297            | 0.1188    | 5.68    | --   |                 | 5.7                      | 5.7   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 0.0325            | 0.13      | 66.3    | --   |                 | 66.3                     | 66.3  | 0.0001         | 0.0                   | 0.0   | 1.0%                 | 1.6%  |
| PCB-77              | 0.0215            | 0.086     | 7.67    | B    | <5x*B           | 7.7                      | 3.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.0196            | 0.0784    | 0.655   | BJ   | <5x*B           | 0.7                      | 0.3   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.72              | 10.88     | 28.9    | B    | <5x*B           | 28.9                     | 14.5  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |
| PCB-114             | 2.85              | 11.4      |         | --   |                 | 1.4                      |       | 0.0005         | 0.0                   |       | 0.1%                 |       |
| PCB-118             | 3.28              | 13.12     | 59      | B    | <5x*B           | 59                       | 29.5  | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 0.7%  |
| PCB-123             | 14.6              | 58.4      |         | --   |                 | 7.3                      |       | 0.0001         | 0.0                   |       | 0.1%                 |       |
| PCB-126             | 0.0614            | 0.2456    | 1.08    | BJ   | <5x*B           | 1.1                      | 0.5   | 0.1            | 0.1                   | 0.1   | 17.1%                | 11.7% |
| PCB-156             | 0.287             | 1.148     | 8.48    | B    | <5x*B           | 8.5                      | 4.2   | 0.0005         | 0.0                   | 0.0   | 0.7%                 | 0.5%  |
| PCB-157             | 0.296             | 1.184     | 2.35    | --   |                 | 2.4                      | 2.4   | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |
| PCB-167             | 0.291             | 1.164     | 4.59    | --   |                 | 4.6                      | 4.6   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0506            | 0.2024    | 0.151   | J    |                 | 0.2                      | 0     | 0.01           | 0.0                   | 0.0   | 0.3%                 | 0.0%  |
| PCB-189             | 0.171             | 0.684     | 0.944   | --   |                 | 0.9                      | 0.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.3   | 0.1       | 0.1   | 0.5          | 0.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 888               | Duplicate | NW S-6  | NW   | Open Space      | Several analytes not reported |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|-------------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations*      |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                          | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.375             | 1.5       |         | --   |                 | 0.2                           |       | 0.1            | 0.0                   |       | 0.3%                 |       |
| 2,3,7,8-TCDD        | 0.408             | 1.632     |         | --   |                 | 0.2                           |       | 1              | 0.2                   |       | 3.2%                 |       |
| 1,2,3,7,8-PeCDF     | 0.497             | 1.988     |         | --   |                 | 0.2                           |       | 0.05           | 0.0                   |       | 0.2%                 |       |
| 2,3,4,7,8-PeCDF     | 0.341             | 1.364     |         | --   |                 | 0.2                           |       | 0.5            | 0.1                   |       | 1.6%                 |       |
| 1,2,3,7,8-PeCDD     | 0.781             | 3.124     |         | --   |                 | 0.4                           |       | 1              | 0.4                   |       | 6.4%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.361             | 1.444     |         | --   |                 | 0.2                           |       | 0.1            | 0.0                   |       | 0.3%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.267             | 1.068     |         | E    |                 | 0.1                           |       | 0.1            | 0.0                   |       | 0.2%                 |       |
| 2,3,4,6,7,8-HxCDF   | 1.63              | 6.52      |         | ED   |                 | 0.4                           |       | 0.1            | 0.0                   |       | 0.6%                 |       |
| 1,2,3,7,8,9-HxCDF   | 100.2             | 400.8     |         | --   |                 | 50.1                          |       | 0.1            | 5.0                   |       | 80.4%                |       |
| 1,2,3,4,7,8-HxCDD   | 0.597             | 2.388     |         | --   |                 | 0.3                           |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.535             | 2.14      |         | --   |                 | 0.3                           |       | 0.1            | 0.0                   |       | 0.5%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.492             | 1.968     |         | J    |                 | 0.2                           |       | 0.1            | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.629             | 2.516     | 2.95    | --   |                 | 3                             | 3     | 0.01           | 0.0                   | 0.0   | 0.5%                 | 11.4% |
| 1,2,3,4,7,8,9-HpCDF | 2.34              | 9.36      |         | --   |                 | 1.2                           |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 1.35              | 5.4       | 17      | --   |                 | 17                            | 17    | 0.01           | 0.2                   | 0.2   | 2.7%                 | 64.4% |
| OCDF                | 4.02              | 16.08     | 6.93    | IJ   |                 | 6.9                           | 1.7   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| OCDD                | 4.65              | 18.6      | 134     | I    |                 | 134                           | 134   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 5.1%  |
| PCB-77              | 0.29              | 1.16      | 5.79    | B    | <5x*B           | 5.8                           | 2.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-81              | 0.336             | 1.344     | 1.6     | --   |                 | 1.6                           | 1.6   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-105             |                   |           |         | --   | <5x*B           |                               |       | 0.0001         |                       |       |                      |       |
| PCB-114             |                   |           |         | --   |                 |                               |       | 0.0005         |                       |       |                      |       |
| PCB-118             |                   |           |         | --   | <5x*B           |                               |       | 0.0001         |                       |       |                      |       |
| PCB-123             |                   |           |         | --   |                 |                               |       | 0.0001         |                       |       |                      |       |
| PCB-126             | 0.727             | 2.908     | 1.07    | --   |                 | 1.1                           | 0.5   | 0.1            | 0.1                   | 0.1   | 1.8%                 | 18.9% |
| PCB-156             |                   |           |         | --   | <5x*B           |                               |       | 0.0005         |                       |       |                      |       |
| PCB-157             |                   |           |         | --   | <5x*B           |                               |       | 0.0005         |                       |       |                      |       |
| PCB-167             |                   |           |         | --   | <5x*B           |                               |       | 0.00001        |                       |       |                      |       |
| PCB-169             | 0.275             | 1.1       |         | E    |                 | 0.1                           |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             |                   |           |         | --   |                 |                               |       | 0.0001         |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 5.9               | 0.2   | 0.1       | 0.1   | 6.0          | 0.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 226               | Split  | NW S-3  | NW   | Open Space      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.118             | 0.472  | 1.42    | NJ   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 0.5%                 |       |
| 2,3,7,8-TCDD        | 0.0661            | 0.2644 | 0.58    | --   |                 | 0.6                      | 0.6   | 1              | 0.6                   | 0.6   | 3.9%                 | 4.1%  |
| 1,2,3,7,8-PeCDF     | 0.655             | 2.62   |         | E    | <5x*B           | 0.3                      |       | 0.05           | 0.0                   |       | 0.1%                 |       |
| 2,3,4,7,8-PeCDF     | 0.158             | 0.632  | 1.3     | --   |                 | 1.3                      | 1.3   | 0.5            | 0.7                   | 0.7   | 4.2%                 | 4.5%  |
| 1,2,3,7,8-PeCDD     | 0.172             | 0.688  | 2.07    | --   |                 | 2.1                      | 2.1   | 1              | 2.1                   | 2.1   | 13.5%                | 14.5% |
| 1,2,3,4,7,8-HxCDF   | 1.41              | 5.64   |         | --   |                 | 0.7                      |       | 0.1            | 0.1                   |       | 0.5%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.101             | 0.404  | 2.72    | D    |                 | 1.4                      |       | 0.1            | 0.1                   |       | 0.9%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.201             | 0.804  | 1.17    | B    | <5x*B           | 1.2                      | 0.6   | 0.1            | 0.1                   | 0.1   | 0.8%                 | 0.4%  |
| 1,2,3,7,8,9-HxCDF   | 0.703             | 2.812  |         | E    | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.14              | 0.56   | 3.27    | --   |                 | 3.3                      | 3.3   | 0.1            | 0.3                   | 0.3   | 2.1%                 | 2.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.138             | 0.552  | 10.8    | --   |                 | 10.8                     | 10.8  | 0.1            | 1.1                   | 1.1   | 7.0%                 | 7.4%  |
| 1,2,3,7,8,9-HxCDD   | 0.153             | 0.612  | 5.99    | --   |                 | 6                        | 6     | 0.1            | 0.6                   | 0.6   | 3.9%                 | 4.1%  |
| 1,2,3,4,6,7,8-HpCDF | 24.4              | 97.6   |         | D    | <5x*B           | 6.1                      |       | 0.01           | 0.1                   |       | 0.4%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.272             | 1.088  | 1.81    | --   |                 | 1.8                      | 1.8   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 1,2,3,4,6,7,8-HpCDD | 0.275             | 1.1    | 381     | --   |                 | 381                      | 381   | 0.01           | 3.8                   | 3.8   | 24.5%                | 26.3% |
| OCDF                | 0.268             | 1.072  | 43      | I    |                 | 43                       | 43    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.525             | 2.1    | 1590    | CIJ  |                 | 1590                     | 795   | 0.0001         | 0.2                   | 0.1   | 1.0%                 | 0.5%  |
| PCB-77              | 0.428             | 1.712  | 227     | I    |                 | 227                      | 227   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-81              | 0.409             | 1.636  | 5.03    | I    |                 | 5                        | 5     | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 11.2              | 44.8   | 1890    | CJ   |                 | 1890                     | 945   | 0.0001         | 0.2                   | 0.1   | 1.2%                 | 0.7%  |
| PCB-114             | 11.1              | 44.4   | 52.4    | --   |                 | 52.4                     | 52.4  | 0.0005         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-118             | 8.51              | 34.04  | 3330    | CJ   |                 | 3330                     | 1665  | 0.0001         | 0.3                   | 0.2   | 2.1%                 | 1.1%  |
| PCB-123             | 9.33              | 37.32  | 101     | --   |                 | 101                      | 101   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-126             | 1.05              | 4.2    | 44.3    | --   |                 | 44.3                     | 44.3  | 0.1            | 4.4                   | 4.4   | 28.5%                | 30.6% |
| PCB-156             | 1.31              | 5.24   | 926     | CJ   |                 | 926                      | 463   | 0.0005         | 0.5                   | 0.2   | 3.0%                 | 1.6%  |
| PCB-157             | 1.32              | 5.28   | 298     | --   |                 | 298                      | 298   | 0.0005         | 0.1                   | 0.1   | 1.0%                 | 1.0%  |
| PCB-167             | 1.18              | 4.72   | 474     | --   |                 | 474                      | 474   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.426             | 1.704  | 2.57    | --   |                 | 2.6                      | 2.6   | 0.01           | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-189             | 0.883             | 3.532  | 56      | --   |                 | 56                       | 56    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 9.9               | 9.4   | 5.5       | 5.0   | 15.4         | 14.4  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 359               | Split  | SE S-5 | SE      | Open Space |                 |                          |         |          |      |                       |      |                      |       |       |       |  |
|---------------------|-------------------|--------|--------|---------|------------|-----------------|--------------------------|---------|----------|------|-----------------------|------|----------------------|-------|-------|-------|--|
| Analyte             | Analytical Limits |        |        | Results |            | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs |      | Calculated TEQs (ppt) |      | Percent of Total TEQ |       |       |       |  |
|                     | EDL               | QL     | Conc   | Flag    |            |                 | Full                     | Quant   | Human    | Full | Quant                 | Full | Quant                | Full  | Quant |       |  |
| 2,3,7,8-TCDF        | 0.0309            | 0.1236 | 0.171  | NJ      |            | 0.1             |                          | 0.1     |          | 0.0  |                       |      |                      | 1.6%  |       |       |  |
| 2,3,7,8-TCDD        | 0.0495            | 0.198  |        | E       |            | 0               |                          | 1       |          | 0.0  |                       |      |                      | 0.0%  |       |       |  |
| 1,2,3,7,8-PeCDF     | 0.101             | 0.404  | 0.182  | --      |            | 0.2             | 0.1                      | 0.05    |          | 0.0  | 0.0                   |      |                      | 1.6%  |       | 1.5%  |  |
| 2,3,4,7,8-PeCDF     | 0.0833            | 0.3332 | 0.161  | --      |            | 0.2             | 0.1                      | 0.5     |          | 0.1  | 0.1                   |      |                      | 16.3% |       | 15.3% |  |
| 1,2,3,7,8-PeCDD     | 0.226             | 0.904  |        | E       |            | 0.1             |                          | 1       |          | 0.1  |                       |      |                      | 16.3% |       |       |  |
| 1,2,3,4,7,8-HxCDF   | 0.0687            | 0.2748 | 0.294  | B       | <5x*B      | 0.3             | 0.1                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 4.9%  |       | 3.1%  |  |
| 1,2,3,6,7,8-HxCDF   | 0.294             | 1.176  |        | D       |            | 0.1             |                          | 0.1     |          | 0.0  |                       |      |                      | 1.6%  |       |       |  |
| 2,3,4,6,7,8-HxCDF   | 0.0728            | 0.2912 | 0.225  | --      |            | 0.2             | 0.1                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 3.3%  |       | 3.1%  |  |
| 1,2,3,7,8,9-HxCDF   | 0.0752            | 0.3008 | 0.323  | B       | <5x*B      | 0.3             | 0.2                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 4.9%  |       | 6.1%  |  |
| 1,2,3,4,7,8-HxCDD   | 0.042             | 0.168  | 0.201  | --      |            | 0.2             | 0.2                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 3.3%  |       | 6.1%  |  |
| 1,2,3,6,7,8-HxCDD   | 0.0343            | 0.1372 | 0.327  | --      |            | 0.3             | 0.3                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 4.9%  |       | 9.2%  |  |
| 1,2,3,7,8,9-HxCDD   | 0.0336            | 0.1344 | 0.271  | --      |            | 0.3             | 0.3                      | 0.1     |          | 0.0  | 0.0                   |      |                      | 4.9%  |       | 9.2%  |  |
| 1,2,3,4,6,7,8-HpCDF | 1.82              | 7.28   |        | DJ      | <5x*B      | 0.5             |                          | 0.01    |          | 0.0  |                       |      |                      | 0.8%  |       |       |  |
| 1,2,3,4,7,8,9-HpCDF | 0.345             | 1.38   |        | E       |            | 0.2             |                          | 0.01    |          | 0.0  |                       |      |                      | 0.3%  |       |       |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0316            | 0.1264 | 7.56   | --      |            | 7.6             | 7.6                      | 0.01    |          | 0.1  | 0.1                   |      |                      | 12.4% |       | 23.2% |  |
| OCDF                | 0.0537            | 0.2148 | 7.8    | --      |            | 7.8             | 7.8                      | 0.0001  |          | 0.0  | 0.0                   |      |                      | 0.1%  |       | 0.2%  |  |
| OCDD                | 0.0372            | 0.1488 | 63.3   | --      |            | 63.3            | 63.3                     | 0.0001  |          | 0.0  | 0.0                   |      |                      | 1.0%  |       | 1.9%  |  |
| PCB-77              | 0.0851            | 0.3404 | 3.81   | B       | <5x*B      | 3.8             | 1.9                      | 0.0001  |          | 0.0  | 0.0                   |      |                      | 0.1%  |       | 0.1%  |  |
| PCB-81              | 0.0848            | 0.3392 | 0.359  | --      |            | 0.4             | 0.4                      | 0.0001  |          | 0.0  | 0.0                   |      |                      | 0.0%  |       | 0.0%  |  |
| PCB-105             | 0.222             | 0.888  | 19.2   | B       | <5x*B      | 19.2            | 9.6                      | 0.0001  |          | 0.0  | 0.0                   |      |                      | 0.3%  |       | 0.3%  |  |
| PCB-114             | 0.451             | 1.804  |        | E       | <5x*B      | 0.2             |                          | 0.0005  |          | 0.0  |                       |      |                      | 0.0%  |       |       |  |
| PCB-118             | 0.173             | 0.692  | 39.7   | B       | <5x*B      | 39.7            | 19.9                     | 0.0001  |          | 0.0  | 0.0                   |      |                      | 0.6%  |       | 0.6%  |  |
| PCB-123             | 0.194             | 0.776  |        | --      |            | 0.1             |                          | 0.0001  |          | 0.0  |                       |      |                      | 0.0%  |       |       |  |
| PCB-126             | 0.196             | 0.784  | 1.19   | B       | <5x*B      | 1.2             | 0.6                      | 0.1     |          | 0.1  | 0.1                   |      |                      | 19.5% |       | 18.3% |  |
| PCB-156             | 0.12              | 0.48   | 7.75   | B       | <5x*B      | 7.8             | 3.9                      | 0.0005  |          | 0.0  | 0.0                   |      |                      | 0.6%  |       | 0.6%  |  |
| PCB-157             | 0.126             | 0.504  | 2.72   | B       | <5x*B      | 2.7             | 1.4                      | 0.0005  |          | 0.0  | 0.0                   |      |                      | 0.2%  |       | 0.2%  |  |
| PCB-167             | 0.116             | 0.464  | 7.56   | BJ      | <5x*B      | 7.6             | 3.8                      | 0.00001 |          | 0.0  | 0.0                   |      |                      | 0.0%  |       | 0.0%  |  |
| PCB-169             | 0.0551            | 0.2204 | 0.267  | --      |            | 0.3             | 0.3                      | 0.01    |          | 0.0  | 0.0                   |      |                      | 0.5%  |       | 0.9%  |  |
| PCB-189             | 1.87              | 7.48   |        | EI      | <5x*B      | 0.9             |                          | 0.0001  |          | 0.0  |                       |      |                      | 0.0%  |       |       |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.3               | 0.2   | 0.1       | 0.1   | 0.4          | 0.3   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 533               | Split  | SW S-10 | SW   | Open Space      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.131             | 0.524  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       | 0.9%                 |       |
| 2,3,7,8-TCDD        | 0.0985            | 0.394  |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.23              | 0.92   | 0.42    | --   |                 | 0.4                      | 0.2   | 0.05           | 0.0                   | 0.0   | 1.8%                 | 1.8%  |
| 2,3,4,7,8-PeCDF     | 0.482             | 1.928  |         | E    |                 | 0.2                      |       | 0.5            | 0.1                   |       | 9.2%                 |       |
| 1,2,3,7,8-PeCDD     | 0.431             | 1.724  |         | E    |                 | 0.2                      |       | 1              | 0.2                   |       | 18.4%                |       |
| 1,2,3,4,7,8-HxCDF   | 0.0811            | 0.3244 | 0.51    | --   |                 | 0.5                      | 0.5   | 0.1            | 0.1                   | 0.1   | 4.6%                 | 8.9%  |
| 1,2,3,6,7,8-HxCDF   | 0.0761            | 0.3044 | 0.798   | B    | <5x*B           | 0.8                      | 0.4   | 0.1            | 0.1                   | 0.0   | 7.4%                 | 7.1%  |
| 2,3,4,6,7,8-HxCDF   | 0.622             | 2.488  |         | E    |                 | 0.3                      |       | 0.1            | 0.0                   |       | 2.8%                 |       |
| 1,2,3,7,8,9-HxCDF   | 0.734             | 2.936  |         | E    | <5x*B           | 0.4                      |       | 0.1            | 0.0                   |       | 3.7%                 |       |
| 1,2,3,4,7,8-HxCDD   | 0.0761            | 0.3044 | 0.58    | --   |                 | 0.6                      | 0.6   | 0.1            | 0.1                   | 0.1   | 5.5%                 | 10.7% |
| 1,2,3,6,7,8-HxCDD   | 0.722             | 2.888  |         | E    |                 | 0.4                      |       | 0.1            | 0.0                   |       | 3.7%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.404             | 1.616  |         | EJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 1.8%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 4.63              | 18.52  |         | --   | <5x*B           | 2.3                      |       | 0.01           | 0.0                   |       | 2.1%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.339             | 1.356  |         | --   |                 | 0.2                      |       | 0.01           | 0.0                   |       | 0.2%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.516             | 2.064  | 14.2    | --   |                 | 14.2                     | 14.2  | 0.01           | 0.1                   | 0.1   | 13.1%                | 25.2% |
| OCDF                | 1.82              | 7.28   | 9.57    | BI   | <5x*B           | 9.6                      | 4.8   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| OCDD                | 2.42              | 9.68   | 102     | I    |                 | 102                      | 102   | 0.0001         | 0.0                   | 0.0   | 0.9%                 | 1.8%  |
| PCB-77              | 0.155             | 0.62   | 6.59    | B    | <5x*B           | 6.6                      | 3.3   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-81              | 0.126             | 0.504  | 0.42    | B    | <5x*B           | 0.4                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 0.0685            | 0.274  | 22.2    | B    | <5x*B           | 22.2                     | 11.1  | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-114             | 1.09              | 4.36   |         | E    |                 | 0.5                      |       | 0.0005         | 0.0                   |       | 0.0%                 |       |
| PCB-118             | 0.0561            | 0.2244 | 42.5    | B    | <5x*B           | 42.5                     | 21.3  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |
| PCB-123             | 0.0638            | 0.2552 | 1.4     | --   |                 | 1.4                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.196             | 0.784  | 2.39    | --   |                 | 2.4                      | 2.4   | 0.1            | 0.2                   | 0.2   | 22.1%                | 42.6% |
| PCB-156             | 0.0702            | 0.2808 | 11.1    | B    | <5x*B           | 11.1                     | 5.6   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-157             | 0.0708            | 0.2832 | 3.05    | B    | <5x*B           | 3.1                      | 1.5   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-167             | 0.0671            | 0.2684 | 6.78    | BJ   | <5x*B           | 6.8                      | 3.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0942            | 0.3768 | 0.529   | B    | <5x*B           | 0.5                      | 0.3   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.5%  |
| PCB-189             | 0.0228            | 0.0912 | 1.94    | --   |                 | 1.9                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.7               | 0.3   | 0.2       | 0.2   | 0.9          | 0.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 972               | Split  | NE S-5  | NE   | Open Space      |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.00293           | 0.0117 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,7,8-TCDD        | 0.00313           | 0.0125 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDF     | 0.00208           | 0.0083 |         | --   |                 | 0                        |       | 0.05           | 0.0                   |       | 0.0%                 |       |
| 2,3,4,7,8-PeCDF     | 0.00194           | 0.0078 |         | --   |                 | 0                        |       | 0.5            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8-PeCDD     | 0.00354           | 0.0142 |         | --   |                 | 0                        |       | 1              | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,7,8-HxCDF   | 0.00912           | 0.0365 |         | --   | <5x*B           | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDF   | 0.0837            | 0.3348 |         | E    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 2,3,4,6,7,8-HxCDF   | 0.00901           | 0.0360 | 0.0691  | --   |                 | 0.1                      | 0.1   | 0.1            | 0.0                   | 0.0   | 15.7%                | 21.1% |
| 1,2,3,7,8,9-HxCDF   | 0.0108            | 0.0432 | 0.287   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 47.2%                | 63.2% |
| 1,2,3,4,7,8-HxCDD   | 0.00262           | 0.0105 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,6,7,8-HxCDD   | 0.00239           | 0.0096 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,7,8,9-HxCDD   | 0.00252           | 0.0101 |         | J    |                 | 0                        |       | 0.1            | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDF | 0.0113            | 0.0452 | 0.119   | B    | <5x*B           | 0.1                      | 0.1   | 0.01           | 0.0                   | 0.0   | 1.6%                 | 2.1%  |
| 1,2,3,4,7,8,9-HpCDF | 0.0152            | 0.0608 |         | --   |                 | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| 1,2,3,4,6,7,8-HpCDD | 0.00301           | 0.0120 | 0.796   | B    | <5x*B           | 0.8                      | 0.4   | 0.01           | 0.0                   | 0.0   | 12.6%                | 8.4%  |
| OCDF                | 0.0247            | 0.0988 | 0.323   | J    |                 | 0.3                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| OCDD                | 0.0191            | 0.0764 | 4.45    | --   |                 | 4.5                      | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.7%                 | 0.9%  |
| PCB-77              | 0.0243            | 0.0972 | 1.96    | B    | <5x*B           | 2                        | 1     | 0.0001         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |
| PCB-81              | 0.0371            | 0.1484 | 0.452   | --   |                 | 0.5                      | 0.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| PCB-105             | 0.132             | 0.528  | 6.82    | B    | <5x*B           | 6.8                      | 3.4   | 0.0001         | 0.0                   | 0.0   | 1.1%                 | 0.7%  |
| PCB-114             | 0.137             | 0.548  | 0.449   | B    | <5x*B           | 0.4                      | 0.1   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.1%  |
| PCB-118             | 0.143             | 0.572  | 14.7    | B    | <5x*B           | 14.7                     | 7.4   | 0.0001         | 0.0                   | 0.0   | 2.3%                 | 1.6%  |
| PCB-123             | 0.162             | 0.648  | 0.38    | --   |                 | 0.4                      | 0.2   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |
| PCB-126             | 0.179             | 0.716  |         | E    |                 | 0.1                      |       | 0.1            | 0.0                   |       | 15.7%                |       |
| PCB-156             | 0.0606            | 0.2424 | 2.08    | B    | <5x*B           | 2.1                      | 1     | 0.0005         | 0.0                   | 0.0   | 1.7%                 | 1.1%  |
| PCB-157             | 0.0626            | 0.2504 | 0.573   | B    | <5x*B           | 0.6                      | 0.3   | 0.0005         | 0.0                   | 0.0   | 0.5%                 | 0.3%  |
| PCB-167             | 0.0616            | 0.2464 | 0.781   | B    | <5x*B           | 0.8                      | 0.4   | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.00734           | 0.0294 |         | --   | <5x*B           | 0                        |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             | 0.0703            | 0.2812 | 0.263   | B    | <5x*B           | 0.3                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.0               | 0.0   | 0.0       | 0.0   | 0.0          | 0.0   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 606-B             | Bulk   | NW R-1  | NW   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0476            | 0.1904 |         | --   |                 | 0                        |       | 0.1            | 0.0                   |       |                      | 0.0%  |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.0223            | 0.0892 |         | --   |                 | 0                        |       | 1              | 0.0                   |       |                      | 0.0%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0563            | 0.2252 |         | --   | <5x*B           | 0                        |       | 0.05           | 0.0                   |       |                      | 0.0%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.172             | 0.688  |         | E    |                 | 0.1                      |       | 0.5            | 0.1                   |       |                      | 6.8%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0908            | 0.3632 | 0.247   | --   |                 | 0.2                      | 0.1   | 1              | 0.2                   | 0.1   | 27.4%                | 19.5% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.234             | 0.936  |         | --   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.4%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.305             | 1.22   |         | ED   |                 | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.4%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.239             | 0.956  |         | E    | <5x*B           | 0.1                      |       | 0.1            | 0.0                   |       |                      | 1.4%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.0614            | 0.2456 | 0.37    | B    | <5x*B           | 0.4                      | 0.2   | 0.1            | 0.0                   | 0.0   | 5.5%                 | 3.9%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0512            | 0.2048 | 0.296   | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.1%                 | 5.8%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0439            | 0.1756 | 0.367   | --   |                 | 0.4                      | 0.4   | 0.1            | 0.0                   | 0.0   | 5.5%                 | 7.8%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0518            | 0.2072 | 0.32    | --   |                 | 0.3                      | 0.3   | 0.1            | 0.0                   | 0.0   | 4.1%                 | 5.8%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0514            | 0.2056 | 1.75    | B    | <5x*B           | 1.8                      | 0.9   | 0.01           | 0.0                   | 0.0   | 2.5%                 | 1.8%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.22              | 0.88   |         | E    |                 | 0.1                      |       | 0.01           | 0.0                   |       | 0.1%                 |       |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0611            | 0.2444 | 8.06    | --   |                 | 8.1                      | 8.1   | 0.01           | 0.1                   | 0.1   | 11.1%                | 15.8% |      |       |      |       |      |
| OCDF                | 0.161             | 0.644  | 3.76    | B    | <5x*B           | 3.8                      | 1.9   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.408             | 1.632  | 60.3    | --   |                 | 60.3                     | 60.3  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 1.2%  |      |       |      |       |      |
| PCB-77              | 0.272             | 1.088  | 7       | BI   | <5x*B           | 7                        | 3.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.265             | 1.06   | 0.495   | BI   | <5x*B           | 0.5                      | 0.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 0.208             | 0.832  | 29.1    | B    | <5x*B           | 29.1                     | 14.6  | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 0.207             | 0.828  | 1.25    | B    | <5x*B           | 1.3                      | 0.6   | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-118             | 0.174             | 0.696  | 57.2    | B    | <5x*B           | 57.2                     | 28.6  | 0.0001         | 0.0                   | 0.0   | 0.8%                 | 0.6%  |      |       |      |       |      |
| PCB-123             | 0.191             | 0.764  |         | --   | <5x*B           | 0.1                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-126             | 0.109             | 0.436  | 1.82    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 24.6%                | 35.1% |      |       |      |       |      |
| PCB-156             | 0.159             | 0.636  | 16.3    | --   |                 | 16.3                     | 16.3  | 0.0005         | 0.0                   | 0.0   | 1.1%                 | 1.6%  |      |       |      |       |      |
| PCB-157             | 0.159             | 0.636  | 3.82    | B    | <5x*B           | 3.8                      | 1.9   | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-167             | 0.143             | 0.572  | 11      | --   |                 | 11                       | 11    | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0638            | 0.2552 | 0.385   | B    | <5x*B           | 0.4                      | 0.2   | 0.01           | 0.0                   | 0.0   | 0.5%                 | 0.4%  |      |       |      |       |      |
| PCB-189             | 0.497             | 1.988  | 4.46    | --   |                 | 4.5                      | 4.5   | 0.0001         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 0.4               | 0.2   | 0.2       | 0.2   | 0.6          | 0.4   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 845-B             | Bulk   | NW R-10 | NW   | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.091             | 0.364  | 0.828   | NJ   |                 | 0.4                      |       | 0.1            | 0.0                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.029             | 0.116  | 7.28    | --   |                 | 7.3                      | 7.3   | 1              | 7.3                   | 7.3   | 58.8%                | 62.8% |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.0554            | 0.2216 | 0.601   | --   |                 | 0.6                      | 0.6   | 0.05           | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.0372            | 0.1488 | 1.02    | --   |                 | 1                        | 1     | 0.5            | 0.5                   | 0.5   | 4.0%                 | 4.3%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0312            | 0.1248 | 1.08    | --   |                 | 1.1                      | 1.1   | 1              | 1.1                   | 1.1   | 8.9%                 | 9.5%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 0.173             | 0.692  | 1.35    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 1.1%                 | 1.2%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 0.159             | 0.636  | 1.2     | --   |                 | 1.2                      | 1.2   | 0.1            | 0.1                   | 0.1   | 1.0%                 | 1.0%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 0.177             | 0.708  | 1.84    | --   |                 | 1.8                      | 1.8   | 0.1            | 0.2                   | 0.2   | 1.5%                 | 1.5%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.205             | 0.82   | 0.613   | B    | <5x*B           | 0.6                      | 0.2   | 0.1            | 0.1                   | 0.0   | 0.5%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.0324            | 0.1296 | 1.36    | --   |                 | 1.4                      | 1.4   | 0.1            | 0.1                   | 0.1   | 1.1%                 | 1.2%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.0256            | 0.1024 | 3.24    | --   |                 | 3.2                      | 3.2   | 0.1            | 0.3                   | 0.3   | 2.6%                 | 2.8%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.0293            | 0.1172 | 2.82    | J    |                 | 2.8                      | 1.4   | 0.1            | 0.3                   | 0.1   | 2.3%                 | 1.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.0812            | 0.3248 | 19      | --   |                 | 19                       | 19    | 0.01           | 0.2                   | 0.2   | 1.5%                 | 1.6%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 0.107             | 0.428  | 0.933   | --   |                 | 0.9                      | 0.9   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0498            | 0.1992 | 73.7    | --   |                 | 73.7                     | 73.7  | 0.01           | 0.7                   | 0.7   | 5.9%                 | 6.3%  |      |       |      |       |      |
| OCDF                | 0.0343            | 0.1372 | 32.9    | J    |                 | 32.9                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.0197            | 0.0788 | 456     | --   |                 | 456                      | 456   | 0.0001         | 0.0                   | 0.0   | 0.4%                 | 0.4%  |      |       |      |       |      |
| PCB-77              | 0.0545            | 0.218  | 60.2    | --   |                 | 60.2                     | 60.2  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |      |       |      |       |      |
| PCB-81              | 0.0558            | 0.2232 | 2.77    | B    | <5x*B           | 2.8                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 1.88              | 7.52   | 295     | --   |                 | 295                      | 295   | 0.0001         | 0.0                   | 0.0   | 0.2%                 | 0.3%  |      |       |      |       |      |
| PCB-114             | 1.96              | 7.84   | 10.8    | --   |                 | 10.8                     | 10.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 2.1               | 8.4    | 538     | CJ   |                 | 538                      | 269   | 0.0001         | 0.1                   | 0.0   | 0.4%                 | 0.2%  |      |       |      |       |      |
| PCB-123             | 2.39              | 9.56   | 14.4    | --   |                 | 14.4                     | 14.4  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.183             | 0.732  | 10.6    | J    |                 | 10.6                     | 5.3   | 0.1            | 1.1                   | 0.5   | 8.5%                 | 4.6%  |      |       |      |       |      |
| PCB-156             | 0.61              | 2.44   | 76.2    | --   |                 | 76.2                     | 76.2  | 0.0005         | 0.0                   | 0.0   | 0.3%                 | 0.3%  |      |       |      |       |      |
| PCB-157             | 0.631             | 2.524  | 19.7    | --   |                 | 19.7                     | 19.7  | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.1%  |      |       |      |       |      |
| PCB-167             | 0.621             | 2.484  | 39.7    | --   |                 | 39.7                     | 39.7  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 0.0482            | 0.1928 | 0.913   | J    |                 | 0.9                      | 0.5   | 0.01           | 0.0                   | 0.0   | 0.1%                 | 0.0%  |      |       |      |       |      |
| PCB-189             | 9.4               | 37.6   |         | E    |                 | 4.7                      |       | 0.0001         | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 11.0              | 10.7  | 1.2       | 0.5   | 12.2         | 11.2  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 985-B             | Bulk   | SE R-7  | SE    | Residential     |                          |       |                |                       |       |                      |       |      |       |      |       |      |
|---------------------|-------------------|--------|---------|-------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|------|-------|------|-------|------|
| Analyte             | Analytical Limits |        | Results |       | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |      |       |      |       |      |
|                     | EDL               | QL     | Conc    | Flag  |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant | Full | Quant | Full | Quant | Full |
| 2,3,7,8-TCDF        | 0.0754            | 0.3016 | 9.59    | NJ    |                 | 4.8                      |       | 0.1            | 0.5                   |       | 0.3%                 |       |      |       |      |       |      |
| 2,3,7,8-TCDD        | 0.038             | 0.152  | 1.14    | --    |                 | 1.1                      | 1.1   | 1              | 1.1                   | 1.1   | 0.6%                 | 0.7%  |      |       |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.159             | 0.636  | 37.2    | --    |                 | 37.2                     | 37.2  | 0.05           | 1.9                   | 1.9   | 1.0%                 | 1.1%  |      |       |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.145             | 0.58   | 79.1    | --    |                 | 79.1                     | 79.1  | 0.5            | 39.6                  | 39.6  | 22.0%                | 23.7% |      |       |      |       |      |
| 1,2,3,7,8-PeCDD     | 0.0632            | 0.2528 | 27.6    | --    |                 | 27.6                     | 27.6  | 1              | 27.6                  | 27.6  | 15.3%                | 16.6% |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 1.25              | 5      | 100     | --    |                 | 100                      | 100   | 0.1            | 10.0                  | 10.0  | 5.6%                 | 6.0%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 1.03              | 4.12   | 62.7    | --    |                 | 62.7                     | 62.7  | 0.1            | 6.3                   | 6.3   | 3.5%                 | 3.8%  |      |       |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 1.29              | 5.16   | 85      | --    |                 | 85                       | 85    | 0.1            | 8.5                   | 8.5   | 4.7%                 | 5.1%  |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 1.48              | 5.92   | 40.5    | --    |                 | 40.5                     | 40.5  | 0.1            | 4.1                   | 4.1   | 2.3%                 | 2.4%  |      |       |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 0.344             | 1.376  | 75.6    | --    |                 | 75.6                     | 75.6  | 0.1            | 7.6                   | 7.6   | 4.2%                 | 4.5%  |      |       |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 0.306             | 1.224  | 243     | --    |                 | 243                      | 243   | 0.1            | 24.3                  | 24.3  | 13.5%                | 14.6% |      |       |      |       |      |
| 1,2,3,7,8,9-HxCDD   | 0.326             | 1.304  | 154     | --    |                 | 154                      | 154   | 0.1            | 15.4                  | 15.4  | 8.6%                 | 9.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | 0.899             | 3.596  | 599     | --    |                 | 599                      | 599   | 0.01           | 6.0                   | 6.0   | 3.3%                 | 3.6%  |      |       |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | 1.63              | 6.52   | 37.7    | --    |                 | 37.7                     | 37.7  | 0.01           | 0.4                   | 0.4   | 0.2%                 | 0.2%  |      |       |      |       |      |
| 1,2,3,4,6,7,8-HpCDD | 0.0954            | 0.3816 | 2490    | CJ    |                 | 2490                     | 1245  | 0.01           | 24.9                  | 12.5  | 13.8%                | 7.5%  |      |       |      |       |      |
| OCDF                | 0.126             | 0.504  | 286     | J     |                 | 286                      | 143   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| OCDD                | 0.549             | 2.196  | 5660    | SJ    |                 | 5660                     | 2830  | 0.0001         | 0.6                   | 0.3   | 0.3%                 | 0.2%  |      |       |      |       |      |
| PCB-77              | 0.0395            | 0.158  | 65.8    | --    |                 | 65.8                     | 65.8  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-81              | 0.0545            | 0.218  | 2.73    | B     | <5x*B           | 2.7                      | 1.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-105             | 2.83              | 11.32  | 332     | --    |                 | 332                      | 332   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-114             | 2.96              | 11.84  | 12.7    | --    |                 | 12.7                     | 12.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-118             | 2.91              | 11.64  | 709     | J     |                 | 709                      | 354.5 | 0.0001         | 0.1                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-123             | 3.31              | 13.24  | 23.9    | J     |                 | 23.9                     | 12    | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-126             | 0.162             | 0.648  | 10.9    | --    |                 | 10.9                     | 10.9  | 0.1            | 1.1                   | 1.1   | 0.6%                 | 0.7%  |      |       |      |       |      |
| PCB-156             | 2.41              | 9.64   | 151     | --    |                 | 151                      | 151   | 0.0005         | 0.1                   | 0.1   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-157             | 2.5               | 10     | 37.3    | --    |                 | 37.3                     | 37.3  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-167             | 2.46              | 9.84   | 72      | --    |                 | 72                       | 72    | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |
| PCB-169             | 4.65              | 18.6   | E       | <5x*B |                 | 2.3                      |       | 0.01           | 0.0                   |       | 0.0%                 |       |      |       |      |       |      |
| PCB-189             | 0.76              | 3.04   | 17.6    | --    |                 | 17.6                     | 17.6  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |      |       |      |       |      |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 178.8             | 165.6 | 1.3       | 1.2   | 180.1        | 166.8 |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 376               | Duplicate | SE R-5  | SE   | Residential     | Several analytes not reported |       |                |                       |       |                      |       |
|---------------------|-------------------|-----------|---------|------|-----------------|-------------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |           | Results |      | <5x in MB found | Adjusted Concentrations*      |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL        | Conc    | Flag |                 | Full                          | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.138             | 0.552     | 1.69    | NJ   |                 | 0.8                           |       | 0.1            | 0.1                   |       | 0.2%                 |       |
| 2,3,7,8-TCDD        | 0.0453            | 0.1812    | 0.716   | --   |                 | 0.7                           | 0.7   | 1              | 0.7                   | 0.7   | 1.6%                 | 2.0%  |
| 1,2,3,7,8-PeCDF     | 0.434             | 1.736     | 5.52    | --   |                 | 5.5                           | 5.5   | 0.05           | 0.3                   | 0.3   | 0.6%                 | 0.8%  |
| 2,3,4,7,8-PeCDF     | 0.32              | 1.28      | 12.3    | --   |                 | 12.3                          | 12.3  | 0.5            | 6.2                   | 6.2   | 13.9%                | 17.4% |
| 1,2,3,7,8-PeCDD     | 0.0651            | 0.2604    | 6.21    | --   |                 | 6.2                           | 6.2   | 1              | 6.2                   | 6.2   | 14.0%                | 17.6% |
| 1,2,3,4,7,8-HxCDF   | 1.1               | 4.4       | 26.8    | --   |                 | 26.8                          | 26.8  | 0.1            | 2.7                   | 2.7   | 6.0%                 | 7.6%  |
| 1,2,3,6,7,8-HxCDF   | 0.975             | 3.9       | 21.1    | --   |                 | 21.1                          | 21.1  | 0.1            | 2.1                   | 2.1   | 4.8%                 | 6.0%  |
| 2,3,4,6,7,8-HxCDF   | 1.36              | 5.44      | 40      | D    |                 | 20                            |       | 0.1            | 2.0                   |       | 4.5%                 |       |
| 1,2,3,7,8,9-HxCDF   | 1.07              | 4.28      | 7.84    | --   |                 | 7.8                           | 7.8   | 0.1            | 0.8                   | 0.8   | 1.8%                 | 2.2%  |
| 1,2,3,4,7,8-HxCDD   | 0.157             | 0.628     | 13.4    | --   |                 | 13.4                          | 13.4  | 0.1            | 1.3                   | 1.3   | 3.0%                 | 3.8%  |
| 1,2,3,6,7,8-HxCDD   | 0.133             | 0.532     | 34      | --   |                 | 34                            | 34    | 0.1            | 3.4                   | 3.4   | 7.7%                 | 9.6%  |
| 1,2,3,7,8,9-HxCDD   | 0.126             | 0.504     | 19.9    | J    |                 | 19.9                          | 10    | 0.1            | 2.0                   | 1.0   | 4.5%                 | 2.8%  |
| 1,2,3,4,6,7,8-HpCDF | 0.16              | 0.64      | 261     | --   |                 | 261                           | 261   | 0.01           | 2.6                   | 2.6   | 5.9%                 | 7.4%  |
| 1,2,3,4,7,8,9-HpCDF | 0.286             | 1.144     | 34.3    | --   |                 | 34.3                          | 34.3  | 0.01           | 0.3                   | 0.3   | 0.8%                 | 1.0%  |
| 1,2,3,4,6,7,8-HpCDD | 0.0952            | 0.3808    | 1110    | CJ   |                 | 1110                          | 555   | 0.01           | 11.1                  | 5.6   | 25.0%                | 15.7% |
| OCDF                | 0.194             | 0.776     | 806     | J    |                 | 806                           | 403   | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| OCDD                | 0.28              | 1.12      | 7910    | CJ   |                 | 7910                          | 3955  | 0.0001         | 0.8                   | 0.4   | 1.8%                 | 1.1%  |
| PCB-77              | 0.135             | 0.54      | 151     | --   |                 | 151                           | 151   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.189             | 0.756     | 5.09    | --   |                 | 5.1                           | 5.1   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             |                   |           |         | --   | <5x*B           |                               |       | 0.0001         |                       |       |                      |       |
| PCB-114             |                   |           |         | --   |                 |                               |       | 0.0005         |                       |       |                      |       |
| PCB-118             |                   |           |         | --   | <5x*B           |                               |       | 0.0001         |                       |       |                      |       |
| PCB-123             |                   |           |         | --   |                 |                               |       | 0.0001         |                       |       |                      |       |
| PCB-126             | 0.208             | 0.832     | 17.2    | --   |                 | 17.2                          | 17.2  | 0.1            | 1.7                   | 1.7   | 3.9%                 | 4.9%  |
| PCB-156             |                   |           |         | --   | <5x*B           |                               |       | 0.0005         |                       |       |                      |       |
| PCB-157             |                   |           |         | --   | <5x*B           |                               |       | 0.0005         |                       |       |                      |       |
| PCB-167             |                   |           |         | --   | <5x*B           |                               |       | 0.00001        |                       |       |                      |       |
| PCB-169             | 4.28              | 17.12     |         | E    |                 | 2.1                           |       | 0.01           | 0.0                   |       | 0.0%                 |       |
| PCB-189             |                   |           |         | --   |                 |                               |       | 0.0001         |                       |       |                      |       |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 42.7              | 33.6  | 1.7       | 1.7   | 44.4         | 35.3  |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 606               | Duplicate | NW R-1 | NW      | Residential |                 |                          |         |          |                       |       |                      |       |  |  |  |  |
|---------------------|-------------------|-----------|--------|---------|-------------|-----------------|--------------------------|---------|----------|-----------------------|-------|----------------------|-------|--|--|--|--|
| Analyte             | Analytical Limits |           |        | Results |             | <5x in MB found | Adjusted Concentrations* |         | WHO TEFs | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |  |  |  |  |
|                     | EDL               | QL        | Conc   | Flag    |             |                 | Full                     | Quant   |          | Full                  | Quant | Full                 | Quant |  |  |  |  |
| 2,3,7,8-TCDF        | 0.0672            | 0.2688    | 0.404  | BNJ     | <5x*B       | 0.2             |                          | 0.1     |          | 0.0                   |       | 0.3%                 |       |  |  |  |  |
| 2,3,7,8-TCDD        | 0.0843            | 0.3372    | 0.788  | --      |             | 0.8             | 0.8                      | 1       |          | 0.8                   | 0.8   | 10.5%                |       |  |  |  |  |
| 1,2,3,7,8-PeCDF     | 0.449             | 1.796     | 6.68   | --      |             | 6.7             | 6.7                      | 0.05    |          | 0.3                   | 0.3   | 4.4%                 |       |  |  |  |  |
| 2,3,4,7,8-PeCDF     | 0.371             | 1.484     | 2.67   | --      |             | 2.7             | 2.7                      | 0.5     |          | 1.4                   | 1.4   | 17.8%                |       |  |  |  |  |
| 1,2,3,7,8-PeCDD     | 0.163             | 0.652     | 1.89   | --      |             | 1.9             | 1.9                      | 1       |          | 1.9                   | 1.9   | 25.0%                |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDF   | 0.16              | 0.64      | 2.29   | --      |             | 2.3             | 2.3                      | 0.1     |          | 0.2                   | 0.2   | 3.0%                 |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDF   | 0.139             | 0.556     | 0.597  | B       | <5x*B       | 0.6             | 0.3                      | 0.1     |          | 0.1                   | 0.0   | 0.8%                 |       |  |  |  |  |
| 2,3,4,6,7,8-HxCDF   | 0.168             | 0.672     | 9.27   | --      |             | 9.3             | 9.3                      | 0.1     |          | 0.9                   | 0.9   | 12.3%                |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDF   | 0.178             | 0.712     | 10.2   | --      |             | 10.2            | 10.2                     | 0.1     |          | 1.0                   | 1.0   | 13.4%                |       |  |  |  |  |
| 1,2,3,4,7,8-HxCDD   | 0.105             | 0.42      | 1.24   | --      |             | 1.2             | 1.2                      | 0.1     |          | 0.1                   | 0.1   | 1.6%                 |       |  |  |  |  |
| 1,2,3,6,7,8-HxCDD   | 0.089             | 0.356     | 1.53   | --      |             | 1.5             | 1.5                      | 0.1     |          | 0.2                   | 0.2   | 2.0%                 |       |  |  |  |  |
| 1,2,3,7,8,9-HxCDD   | 0.085             | 0.34      | 0.768  | --      |             | 0.8             | 0.8                      | 0.1     |          | 0.1                   | 0.1   | 1.1%                 |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDF | 2.72              | 10.88     |        | D       | <5x*B       | 0.7             |                          | 0.01    |          | 0.0                   |       | 0.1%                 |       |  |  |  |  |
| 1,2,3,4,7,8,9-HpCDF | 0.179             | 0.716     | 8.01   | --      |             | 8               | 8                        | 0.01    |          | 0.1                   | 0.1   | 1.1%                 |       |  |  |  |  |
| 1,2,3,4,6,7,8-HpCDD | 0.0894            | 0.3576    | 20.5   | --      |             | 20.5            | 20.5                     | 0.01    |          | 0.2                   | 0.2   | 2.7%                 |       |  |  |  |  |
| OCDF                | 0.203             | 0.812     | 6.6    | --      |             | 6.6             | 6.6                      | 0.0001  |          | 0.0                   | 0.0   | 0.0%                 |       |  |  |  |  |
| OCDD                | 0.123             | 0.492     | 116    | --      |             | 116             | 116                      | 0.0001  |          | 0.0                   | 0.0   | 0.2%                 |       |  |  |  |  |
| PCB-77              | 0.171             | 0.684     | 11.2   | B       | <5x*B       | 11.2            | 5.6                      | 0.0001  |          | 0.0                   | 0.0   | 0.0%                 |       |  |  |  |  |
| PCB-81              | 0.171             | 0.684     | 0.937  | B       | <5x*B       | 0.9             | 0.5                      | 0.0001  |          | 0.0                   | 0.0   | 0.0%                 |       |  |  |  |  |
| PCB-105             | 1.94              | 7.76      | 59.4   | B       | <5x*B       | 59.4            | 29.7                     | 0.0001  |          | 0.0                   | 0.0   | 0.1%                 |       |  |  |  |  |
| PCB-114             | 1.92              | 7.68      |        | --      |             | 1               |                          | 0.0005  |          | 0.0                   |       | 0.0%                 |       |  |  |  |  |
| PCB-118             | 1.48              | 5.92      | 119    | B       | <5x*B       | 119             | 59.5                     | 0.0001  |          | 0.0                   | 0.0   | 0.2%                 |       |  |  |  |  |
| PCB-123             | 1.67              | 6.68      |        | --      |             | 0.8             |                          | 0.0001  |          | 0.0                   |       | 0.0%                 |       |  |  |  |  |
| PCB-126             | 0.226             | 0.904     | 2.54   | --      |             | 2.5             | 2.5                      | 0.1     |          | 0.3                   | 0.3   | 3.3%                 |       |  |  |  |  |
| PCB-156             | 0.689             | 2.756     | 27.2   | --      |             | 27.2            | 27.2                     | 0.0005  |          | 0.0                   | 0.0   | 0.2%                 |       |  |  |  |  |
| PCB-157             | 6.17              | 24.68     |        | E       |             | 3.1             |                          | 0.0005  |          | 0.0                   |       | 0.0%                 |       |  |  |  |  |
| PCB-167             | 0.67              | 2.68      | 15.7   | --      |             | 15.7            | 15.7                     | 0.00001 |          | 0.0                   | 0.0   | 0.0%                 |       |  |  |  |  |
| PCB-169             | 0.138             | 0.552     | 0.544  | --      |             | 0.5             | 0.3                      | 0.01    |          | 0.0                   | 0.0   | 0.1%                 |       |  |  |  |  |
| PCB-189             | 0.826             | 3.304     | 5.16   | --      |             | 5.2             | 5.2                      | 0.0001  |          | 0.0                   | 0.0   | 0.0%                 |       |  |  |  |  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 7.3               | 7.2   | 0.3       | 0.3   | 7.6          | 7.5   |

## APPENDIX A5. Results for Quality Control (QC) Samples

| Sample ID           | 186               | Split  | SE R-11 | SE   | Residential     |                          |       |                |                       |       |                      |       |
|---------------------|-------------------|--------|---------|------|-----------------|--------------------------|-------|----------------|-----------------------|-------|----------------------|-------|
| Analyte             | Analytical Limits |        | Results |      | <5x in MB found | Adjusted Concentrations* |       | WHO TEFs Human | Calculated TEQs (ppt) |       | Percent of Total TEQ |       |
|                     | EDL               | QL     | Conc    | Flag |                 | Full                     | Quant |                | Full                  | Quant | Full                 | Quant |
| 2,3,7,8-TCDF        | 0.0508            | 0.2032 | 0.444   | NJ   |                 | 0.2                      |       | 0.1            | 0.0                   |       | 0.1%                 |       |
| 2,3,7,8-TCDD        | 0.0388            | 0.1552 | 0.822   | --   |                 | 0.8                      | 0.8   | 1              | 0.8                   | 0.8   | 2.5%                 | 3.9%  |
| 1,2,3,7,8-PeCDF     | 0.0247            | 0.0988 | 0.415   | --   |                 | 0.4                      | 0.4   | 0.05           | 0.0                   | 0.0   | 0.1%                 | 0.1%  |
| 2,3,4,7,8-PeCDF     | 0.0202            | 0.0808 | 1.94    | --   |                 | 1.9                      | 1.9   | 0.5            | 1.0                   | 1.0   | 3.0%                 | 4.6%  |
| 1,2,3,7,8-PeCDD     | 0.0593            | 0.2372 | 3.46    | --   |                 | 3.5                      | 3.5   | 1              | 3.5                   | 3.5   | 11.1%                | 16.9% |
| 1,2,3,4,7,8-HxCDF   | 0.216             | 0.864  | 4.28    | --   |                 | 4.3                      | 4.3   | 0.1            | 0.4                   | 0.4   | 1.4%                 | 2.1%  |
| 1,2,3,6,7,8-HxCDF   | 0.184             | 0.736  | 1.71    | --   |                 | 1.7                      | 1.7   | 0.1            | 0.2                   | 0.2   | 0.5%                 | 0.8%  |
| 2,3,4,6,7,8-HxCDF   | 0.249             | 0.996  | 3.61    | --   |                 | 3.6                      | 3.6   | 0.1            | 0.4                   | 0.4   | 1.1%                 | 1.7%  |
| 1,2,3,7,8,9-HxCDF   | 0.281             | 1.124  | 0.776   | B    | <5x*B           | 0.8                      | 0.2   | 0.1            | 0.1                   | 0.0   | 0.3%                 | 0.1%  |
| 1,2,3,4,7,8-HxCDD   | 0.193             | 0.772  | 11.1    | --   |                 | 11.1                     | 11.1  | 0.1            | 1.1                   | 1.1   | 3.5%                 | 5.3%  |
| 1,2,3,6,7,8-HxCDD   | 0.173             | 0.692  | 22.4    | --   |                 | 22.4                     | 22.4  | 0.1            | 2.2                   | 2.2   | 7.1%                 | 10.8% |
| 1,2,3,7,8,9-HxCDD   | 0.189             | 0.756  | 14.5    | J    |                 | 14.5                     | 7.3   | 0.1            | 1.5                   | 0.7   | 4.6%                 | 3.5%  |
| 1,2,3,4,6,7,8-HpCDF | 159               | 636    |         | D    | <5x*B           | 39.8                     |       | 0.01           | 0.4                   |       | 1.3%                 |       |
| 1,2,3,4,7,8,9-HpCDF | 0.239             | 0.956  | 8.44    | --   |                 | 8.4                      | 8.4   | 0.01           | 0.1                   | 0.1   | 0.3%                 | 0.4%  |
| 1,2,3,4,6,7,8-HpCDD | 0.844             | 3.376  | 1830    | CJ   |                 | 1830                     | 915   | 0.01           | 18.3                  | 9.2   | 58.2%                | 44.1% |
| OCDF                | 0.125             | 0.5    | 660     | J    |                 | 660                      | 330   | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.2%  |
| OCDD                | 0.127             | 0.508  | 4440    | SJ   |                 | 4440                     | 2220  | 0.0001         | 0.4                   | 0.2   | 1.4%                 | 1.1%  |
| PCB-77              | 0.0483            | 0.1932 | 103     | --   |                 | 103                      | 103   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-81              | 0.0561            | 0.2244 | 4.78    | B    | <5x*B           | 4.8                      | 2.4   | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-105             | 2.47              | 9.88   | 515     | CJ   |                 | 515                      | 257.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.1%  |
| PCB-114             | 2.58              | 10.32  | 27.5    | J    |                 | 27.5                     | 13.8  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-118             | 2.16              | 8.64   | 735     | CJ   |                 | 735                      | 367.5 | 0.0001         | 0.1                   | 0.0   | 0.2%                 | 0.2%  |
| PCB-123             | 2.45              | 9.8    | 28.5    | --   |                 | 28.5                     | 28.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-126             | 0.63              | 2.52   | 7.94    | --   |                 | 7.9                      | 7.9   | 0.1            | 0.8                   | 0.8   | 2.5%                 | 3.8%  |
| PCB-156             | 1.3               | 5.2    | 84      | --   |                 | 84                       | 84    | 0.0005         | 0.0                   | 0.0   | 0.1%                 | 0.2%  |
| PCB-157             | 1.35              | 5.4    | 24.7    | --   |                 | 24.7                     | 24.7  | 0.0005         | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-167             | 1.33              | 5.32   | 45.7    | J    |                 | 45.7                     | 22.9  | 0.00001        | 0.0                   | 0.0   | 0.0%                 | 0.0%  |
| PCB-169             | 0.0746            | 0.2984 | 1.07    | --   |                 | 1.1                      | 1.1   | 0.01           | 0.0                   | 0.0   | 0.0%                 | 0.1%  |
| PCB-189             | 0.604             | 2.416  | 16.5    | --   |                 | 16.5                     | 16.5  | 0.0001         | 0.0                   | 0.0   | 0.0%                 | 0.0%  |

\* Adjusted concentrations were modified using validation flags.

The Dioxin/Furan Only Full TEQ is used in this report. --->

| Dioxin/Furan Only |       | PCBs Only |       | All Analytes |       |
|-------------------|-------|-----------|-------|--------------|-------|
| Full              | Quant | Full      | Quant | Full         | Quant |
| 30.5              | 19.8  | 1.0       | 0.8   | 31.5         | 20.6  |